7-20190

SCREENING SITE INSPECTION REPORT
FOR
MACON COUNTY LANDFILL #2
DECATUR, ILLINOIS
U.S. EPA ID: IL980498125
SS ID: NONE
TDD: F05-8705-059

PAN: FILO557SA

DECEMBER 26, 1990

EPA Region 5 Records Ctr.
358685



ecology and environment, inc.

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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Macon County Landfill #2 (MCL #2) site under contract number 68-01-7347.

The circumstances of site discovery are not known. The site was placed on the U.S. EPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list in December 1983. The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Kenneth L. Page of the Illinois Environmental Protection Agency (IEPA) office in Springfield, Illinois, and is dated November 21, 1985.

FIT prepared an SSI work plan for the MCL #2 site under technical directive document (TDD) F05-8705-059, issued on May 5, 1987. The SSI work plan was approved by U.S. EPA on October 10, 1989. The SSI of the MCL #2 site was conducted on December 4 through 6, 1989, under TDD F05-8910-027, issued on October 12, 1989. An additional visit to the site for resampling was conducted on April 24, 1990, also under TDD F05-8910-027.

The FIT SSI included an interview with a site representative, a reconnaissance inspection of the site, and the collection of eight soil/sediment samples and four monitoring well samples. The SSI also included the collection of an additional eight soil/sediment samples and two monitoring well samples during the resampling visit to the site.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP (no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and a reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

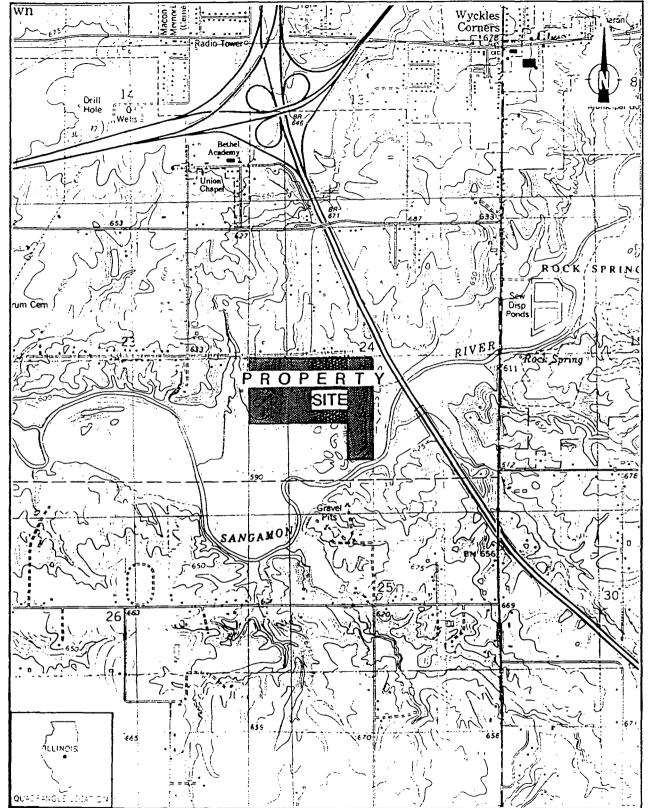
The MCL #2 site is an active landfill located on Hill Road,

Decatur, Illinois. The site is the second in a series of four adjacent
parcels of land owned by Macon County Landfill Corporation (MCL). Three
of the parcels have been operated as landfills, designated as Macon

County Landfills numbers 1, 2, and 3 (MCL #1, MCL #2, and MCL #3). The
westernmost parcel of land, MCL #4, is intended as the location of
future landfill operations. The site occupies approximately 25 acres
and is situated approximately 1 1/4 miles southwest of Decatur,
Illinois, in Macon County (SW1/4 sec. 24, T.16N., R.1E.) (see Figure 2-1
for site location). The site is a rectangular-shaped parcel of land in
a rural farming area, approximately 1/4 mile north of the Sangamon
River. A 4-mile radius map of the MCL #2 site is provided in Appendix A.

2.3 SITE HISTORY

MCL is owned by approximately 30 shareholders, most of whom work at the landfills. According to Paul McKinney, president of MCL from 1986 to 1990, ownership has remained the same since 1972. Previous ownership of the site is unknown (McKinney 1989).



SOURCE: USGS, Harristown, IL Quadrangle, 7.5 Minute Series, 1982.

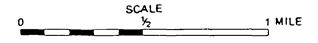


FIGURE 2-1 SITE LOCATION 2-2

Development for landfilling purposes of an approximately 25-acre parcel of land, MCL #1, began in 1976 with the issuance of an operating permit by IEPA, permit number 1976-4-OP. The permit allowed MCL to handle general solid waste, excluding any special waste such as sludge and liquids not authorized by supplemental permits. Throughout the history of MCL operations, numerous supplemental permits have been issued for the disposal of special wastes. Special wastes that have been and are currently being disposed of at the site and the two adjacent landfills operated by MCL include wash ink, solvent waste, waste core sand, used paint filters, solid paint waste, and foundry sand. A supplemental permit, number 1984-58-SP, issued to MCL in 1984, allowed liquid wastes and sludges to be disposed of in an open trench in the top of the previous day's accumulation of waste (Eastep 1984a). FIT file information provided an extensive list of the special waste and special waste generators disposing of waste at the site and at MCL #1 and MCL #3.

The landfill operates by pit fill methods, using natural and engineered clay liners. Clay-rich soil is excavated from areas south of the landfills and used as a cover material.

A supplemental permit issued in 1976 allowed MCL to install a culvert in a southern berm wall of MCL #1. The berm wall was used to prevent Sangamon River floodwaters from inundating the landfill. The culvert was installed to drain water from inside the landfill onto the Sangamon River floodplain. A flapper valve at the south end of the culvert prevented river floodwaters from entering the landfill through the culvert (IEPA 1979). A few years after the culvert had been installed, it was removed because of the possibility of leachate from the landfill discharging through the pipe. Removal of the culvert left a trench through the berm wall that allowed floodwaters to inundate the landfill. The trench was later repaired (IEPA 1979).

In 1977 MCL acquired a permit to investigate the development and operation of a second parcel of land, adjacent to the original land-fill's western boundary, as a landfill extension. This extension was the location of the MCL #2 site. The permit required soil and foundation investigations to be conducted outside of the development area of the first landfill. In 1978 and 1979 additional borings were conducted

in an attempt to provide data that would support modification of the existing developmental permit for the MCL #2 site (Shaffer, Krimmel, and Silver 1983). These modifications applied to a supplemental permit issued in 1979 to increase fill invert elevation (i.e., increase the depth to which the area would be excavated prior to landfilling operations), and to design a storm sewer pipeline to run under the vestern boundary of the MCL #2 site (Cavanagh 1979). The storm sewer pipeline was installed to drain the area north of the site under the landfill as an alternative to an open drainageway through the landfill for surface water drainage (McKinney 1989; Krimmel 1979).

A prerequisite for development of the MCL #2 site as a landfill extension was a new groundwater monitoring program at the site, initiated by IEPA. Two downgradient monitoring wells south of the MCL #2 site that had been installed for the first landfill were considered inadequate for the MCL #2 site. Therefore, IEPA requested development of a new groundwater monitoring program for the landfills operated by MCL (Eastep 1983). A groundwater monitoring program that called for the insallation of six additional monitoring wells (numbers G105, G106, G109, G110, G111, and G113S) was developed by a local consulting engineering company. The program was approved and MCL was granted a supplemental permit for development of the MCL #2 site as a landfill extension in 1984 (Eastep 1984).

The most recent supplemental permits for areal extension of MCL operations incorporate the subsequent development of further extensions, MCL #3 and MCL #4. Between MCL #3 and MCL #4 lies an oil pipeline. Prior to development of these two landfills, the pipeline was active and was to be rerouted around the MCL #2 site. However, the pipeline was abandoned in approximately 1986, making the rerouting of the pipeline unnecessary (McKinney 1989). Development and start-up operations of MCL #3 resulted in the installation of four additional monitoring wells in summer 1989. Installation of these wells was initiated by IEPA for future groundwater monitoring of MCL #3 and MCL #4. According to site representatives, monitoring well G111 on the south end of the MCL #2 site was inadvertently damaged by a tractor on-site during summer 1989. Appropriate repairs were made, and the well was placed back in operation in August 1989.

Groundwater monitoring sampling is currently conducted quarterly at the MCL landfills by Andrews Environmental Engineering, Inc., of Springfield, Illinois. Analysis of samples from monitoring wells G111, G113S, and G110 during 1988 sampling revealed higher than normal concentrations of the following indicator parameters: total alkalinity, boron, chloride, iron sulfate, and total organic carbon (McDermott 1988). In sampling through September 1989, monitoring wells G110 and G111 continued to have higher than normal concentrations of indicator parameters (McDermott 1989). More recent well data was not available. The course of action recommended by the consultant is continued monitoring of these wells and parameters for four additional quarters, followed by submittal of a modified investigative plan to IEPA (McDermott 1989).

The site has a history of problems with leachate generations containment. Leachate problems at the MCL #2 site have necessitated modifications to the collection and containment methods employed at the site. Past practices consisted of seepage being drained into pits for containment. IEPA did not agree with this practice because of the resultant exposed waste. Therefore, MCL operators designed a new leachate collection and containment method at the site, consisting of a large plastic pipe set in a gravel base covered with clay. The pipe extends up out of the surface of the landfill approximately 5 to 6 feet. Leachate is then collected in this pipe, and is occasionally pumped out and disposed of back into the landfill. There are currently four of these pipes located on the MCL #2 site (McKinney 1989).

"Runoff" water that accumulates in the excavated areas of the site is pumped into the Sangamon River. The Sangamon River, the nearest surface water body to the site, is located approximately 1,300 feet south of the site. The runoff water comes in contact with current active disposal area MCL #3. IEPA believes that the site is violating regulations with this unpermitted discharge. No violation has been cited to date because there has been no actual observance by IEPA personnel (IEPA 1990).

Numerous past IEPA site inspections have noted violations regarding leachate, blowing litter, and inadequate daily cover at the site. However, McKinney stated that he believes that MCL has not been cited

for leachate violations during his presidency of the corporation (McKinney 1989).

There are currently no known regulatory or enforcement activities occurring at the MCL #2 site.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the MCL #2 site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan, with the exception that FIT returned to the MCL #2 site on April 24, 1990, to collect additional sample material for inorganic analysis at eight soil/sediment sampling locations and four monitoring well sampling locations. The resampling was necessary because the laboratory that performed inorganic analysis of the original samples, collected on December 4 through 6, 1989, was dropped from the U.S. EPA Contract Laboratory Program (CLP) for invalid analysis of samples. However, during FIT's resampling visit to the site, samples were collected from only two of the original four monitoring wells. One well was discovered to have been removed from the site, and an obstruction in a second monitoring well prevented the use of a bailer for sampling.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the MCL #2 site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Samuel F. Borries. FIT team leader, conducted an interview with Paul McKinney, president of MCL. Michael E. McAteer of FIT was also present at this interview. The interview was conducted to gather information that would aid FIT with the site inspection.

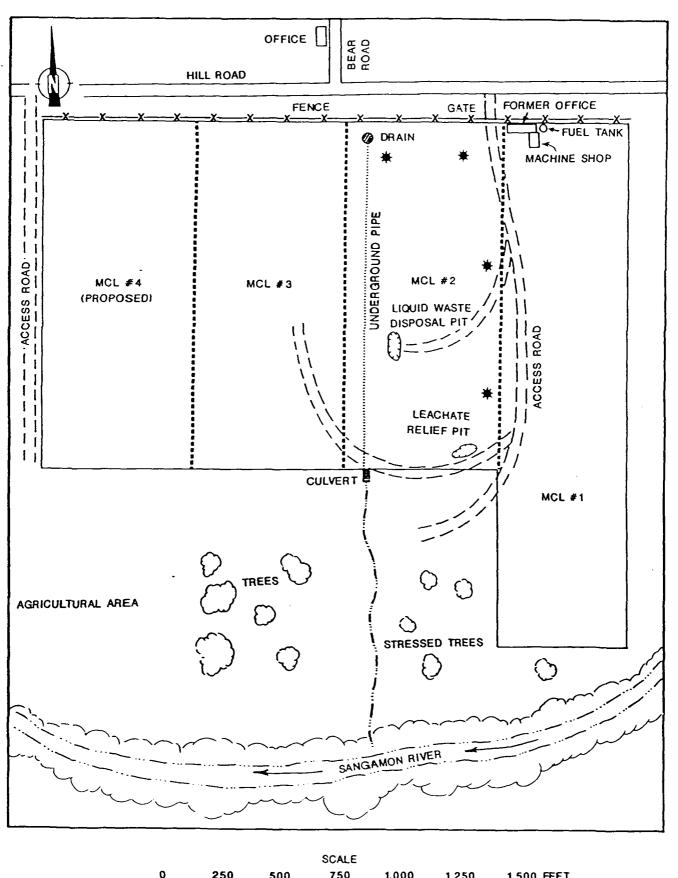
3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the MCL #2 site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began at 9:30 a.m. and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was not accompanied by site representatives during the reconnaissance inspection. This subsection also presents information obtained during the resampling visit to the site on April 24, 1990.

Reconnaissance Inspection Observations. The MCL #2 site is the second in a series of four adjacent parcels of land that MCL has developed and operated as landfills (see Figure 3-1 for site features). The landfill is located southwest of the city of Decatur in a rural setting. The easternmost landfill, MCL #1, is currently closed. The landfill that constitutes the MCL #2 site is currently approaching its designated elevation. The parcel of land that constitutes MCL #3 has undergone excavation in preparation for landfill operations. The parcel of land that is the proposed location of MCL #4 is currently unused. The area around the MCL #2 site is used for farming and pastureland.

The eastern side of the MCL property is bordered by Illinois Highway Route 51, and Hill Road runs east-west near the northern border of the landfills. Approximately 1/4 mile south of the site is the Sangamon River, with an intervening floodplain (see Appendix C for site photographs).

Each landfill covers approximately 25 acres, but the parcel of land comprising MCL #1 is narrower and more elongated in shape than the others, and extends onto the Sangamon River floodplain. The remaining three landfills do not extend as far onto the floodplain. Along the west boundary of MCL #4 there is an access road to the farming property along the Sangamon River. West of the access road is a grass- and tree-covered area not used for farming or pastureland. There are four residences along Hill Road north of the MCL #2 site. The nearest home



SCALE

0 250 500 750 1,000 1,250 1,500 FEET

LEGEND

LEACHATE COLLECTION PIPE

FIGURE 3-1 SITE FEATURES

is approximately 200 feet north of the site. The present office for MCL is north of Hill Road at the intersection of Hill Road and Bear Road. The northern boundary is the only fenced boundary and includes one access gate at the northeast corner of the MCL #2 site, where the main access road enters the site from Hill Road.

Two MCL buildings are located on MCL #1: a former office building and a building currently used as a machine shop. These buildings are located south of Hill Road, along the main access road that leads across MCL #1, MCL #2, and MCL #3. The access road runs south along the western border of MCL #1 and turns west along the southern edge of the MCL #2 site. The road enters the southern boundary of MCL #3. A branch of the main access road leads upslope to the top of the MCL #2 site, to a liquid waste disposal pit. This pit is used for liquid waste disposal, allowing liquids to be absorbed in the landfill from the top down.

Most of the area of the MCL #2 site has been filled to approximately 695 feet above sea level. The surrounding elevation is approximately 635 feet above sea level. Currently, the area designated as MCL #3 is a pit that has been excavated and leveled off at approximately 575 feet above sea level, as was the MCL #2 site, in preparation for landfill operations. The western slope of the MCL #2 site is awaiting the buildup of the elevation of MCL #3, so disposal into MCL #2 can be completed and the elevation of the boundary between the two landfills can be leveled (McKinney 1989). MCL #1 was completed at approximately 630 to 635 feet above sea level.

Nine monitoring wells have been installed around the perimeter of the landfills for groundwater monitoring (see Figure 3-2 for on-site monitoring well locations). Two of the four FIT-sampled monitoring wells are located south of the MCL #2 site. One of the FIT-sampled monitoring wells is located north of the MCL #2 site. The fourth FIT-sampled monitoring well is located west of MCL #4.

The discharge pipe of the storm sewer is located at the southwest corner of the MCL #2 site. Sediment in the drainage channel was stained an orange-rust color. Numerous leachate seeps were found on the southeast slope of the site. Four plastic pipe vents and leachate collection pipes are located on the MCL #2 site, two on the north slope and two on

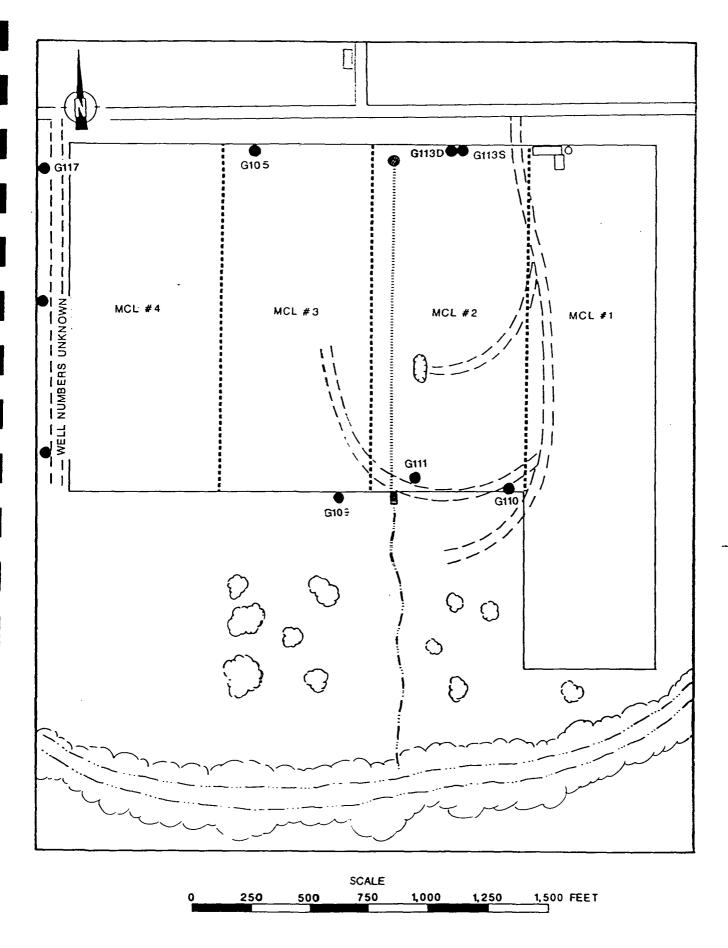


FIGURE 3-2 MONITORING WELL LOCATIONS 3-5

the east slope. Stressed trees were noted south of the MCL #2 site, approximately 100 feet from the south boundary of the site. An unused fuel storage tank with dark, oil-stained soil around it was lying on the ground east of the machine shop.

During FIT's April 24, 1990, resampling visit to the site, several site feature changes were observed to have taken place since the original site inspection. Monitoring well G111 (FIT-designated MW3) had been removed. Additionally, on the south side of the MCL #2 site, a pit had been excavated into the fill in order to relieve pressure from a leachate seep that discharged from the south end of the site. The soil from the area of discharged leachate was being removed and replaced with a suitable cover material. A mobile home residence was placed west of MCL #4 along the west side of the access road leading south to the farmland along the Sangamon River. FIT also observed that the liquid waste disposal pit, observed at the end of the access road branch leading to the top of the MCL #2 site during the original site inspection, was not present during the resampling visit.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or U.S. EPA Target Analyte List (TAL) analytes were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D.

On December 5, 1989, FIT collected three surface soil/sediment samples and one potential background surface soil sample. On December 6, 1989, FIT collected four surface soil/sediment samples, three monitoring well samples, and one potential background monitoring well sample. On April 24, 1990, FIT collected for inorganic analysis seven surface soil/sediment samples, one potential background surface soil sample, one monitoring well sample, and one potential background monitoring well sample. For the original inspection and the subsequent resampling visit, portions of the soil/sediment and monitoring well samples collected on-site were offered to a site representative and the offers were declined.

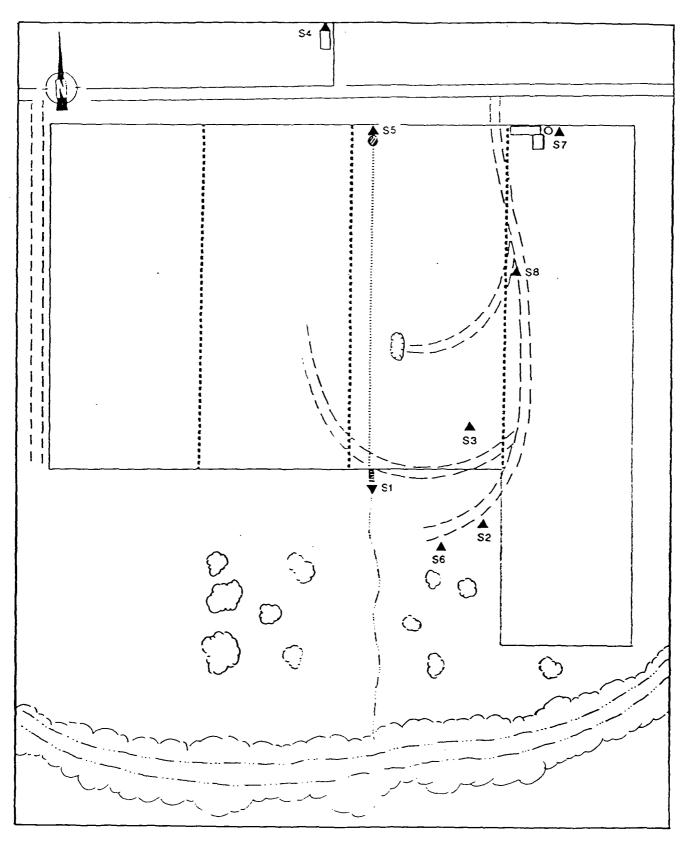
Soil/Sediment Sampling Procedures. The eight soil/sediment samples designated S1 through S8 were collected during FIT's original site inspection of the MCL #2 site. The eight soil/sediment samples designated S1-A through S8-A were collected during FIT's resampling visit to the site. Sediment sample S1 was collected off-site from a location where stained sediment was observed near the exit of the storm sewer drain discharge pipe at the southwest corner of the MCL #2 site (see Figure 3-3 for soil/sediment sampling locations from the original inspection). Sediment sample S1-A was collected near this location during the resampling visit, approximately 6 feet north of the original location (see Figure 3-4 for soil/sediment sampling locations from the April 1990 resampling visit). Samples S1 and S1-A were collected in order to determine whether TCL compounds or TAL analytes were migrating from under the MCL #2 site onto the Sangamon River floodplain.

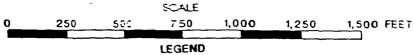
Soil sample S2 was collected off-site from a low-lying area near the southeast corner of the site. Surface water runoff and possible leachate seepage could be expected to drain away from the site through this low-lying area. Soil sample S2-A was also collected in this low-lying area, approximately 15 feet west of the original sampling location, because of evidence that heavy machinery had traveled over the original location and disturded the ground suface during the time between the two sampling dates.

Soil sample S3 was collected as a composite sample from several locations where leachate seepage had been observed on the southeast side of the site. Soil sample S3-A was also a composite sample, collected from these locations on the southeast side of the site.

Soil samples S4 and S4-A were collected from an overgrown grassy area north of the MCL office. The samples were collected as potential background soil samples in order to determine the representative chemical content of the soil in the vicinity of the site.

Soil sample S5 was collected alongside the storm sewer drain cover at the northwest corner of the site. A portion of the surface water runoff from the north end of the site is drained through this pipe. Sample S5-A was also collected at this location, as a sediment sample. At the time of the resampling visit, water was pooled in the area.





▲ SOIL SAMPLE ▼ SEDIMENT SAMPLE

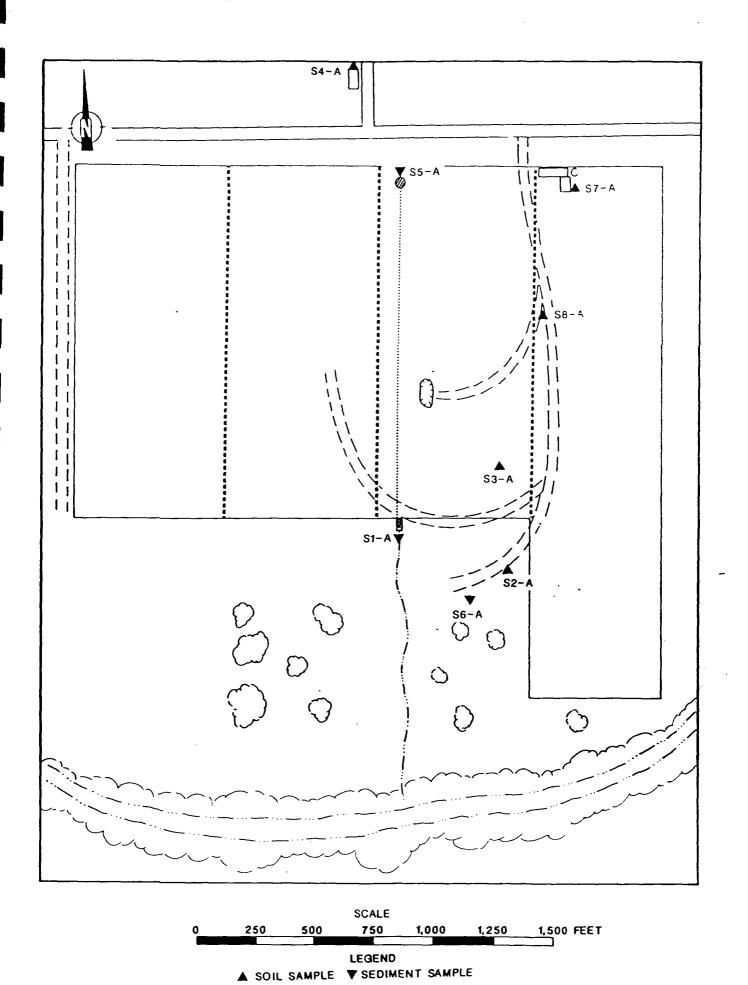


FIGURE 3-4 SOIL/SEDIMENT SAMPLING LOCATIONS, RESAMPLING VISIT 3-9

Soil sample S6 was collected off-site from a low-lying area overgrown with a small patch of cattails, near the south-central boundary of the site. A portion of the surface water runoff from MCL #2 drains through this area. Sediment sample S6-A was collected approximately 4 to 6 feet south of the original sampling location because of water that had pooled over the original location at the time of resampling.

Soil sample S7 was collected off-site from a ditch east of the former office and machine shop. This ditch drains surface water runoff from the eastern boundary of the MCL \$2 site and from the western boundary of MCL \$1. On the ground near the sampling location was an empty, unused fuel storage tank, of approximately 250-gallon capacity, with dark, oil-stained soil around it. At the time of the resampling visit, the ditch east of the buildings had been filled in and the tank had been removed. Therefore, the corresponding soil sample S7-A was collected from a location approximately 10 to 15 feet southwest of the original location, alongside the ditch fill material.

Soil sample S8 was collected on the east side of the MCL #2 site. The sample was collected along a drive and drainageway for surface water runoff at the base of the landfill mound that constitutes the MCL #2 site. Soil sample S8-A was also collected at this location.

During the original inspection, soil/sediment samples S1, S2, S3, S5, and S7 were collected at approximate depths of 4 to 6 inches using a garden trowel and bowl. The soil was collected in the bowl and then transferred to sample bottles using a garden trowel (E & E 1987).

Soil sample S4 was collected at an approximate depth of 8 inches, using a garden trowel and transferring the soil directly to sample bottles (E & E 1987).

Soil sample S6 was collected using a shovel to dig to approximately 10 inches in depth, collecting soil using a garden trowel, and transferring the scil directly to sample bottles (E & E 1987).

Soil sample S8 was collected using a posthole digger to dig to approximately 6 inches in depth and collect soil in a bowl. A garden trowel was then used to transfer the soil to sample bottles (E & E 1987).

During the resampling visit, soil/sediment samples S1-A, S2-A, S3-A, S4-A, S5-A, and S6-A were collected from approximate depths of 4 to 6 inches. The samples were collected using a garden trowel, collecting the soil/sediment in a bowl, and then using the garden trowel to transfer the soil/sediment to sample bottles (E & E 1987).

Soil sample S7-A was collected using a shovel to dig to approximately 10 inches in depth. The soil was placed in a bowl and transferred to sample bottles using a garden trowel (E & E 1987).

Soil sample S8-A was collected using a posthole digger to dig to approximately 10 inches in depth. The soil was placed in a bowl and transferred to sample bottles, using a garden trowel (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil/sediment samples. The procedures included the scrubbing of all equipment (e.g., trowel, bowl, shovel, and posthole digger) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All soil/sediment samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil/sediment samples were analyzed using the U.S. EPA CLP.

Monitoring Well Sampling Procedures. The four monitoring well samples designated MV1 through MV4 were collected during FIT's original site inspection. The two monitoring well samples designated MV2-A and MV4-A were collected during FIT's resampling visit. Monitoring well samples MV1, MV2, MV3, and MV4 were collected to determine whether TCL compounds and/or TAL analytes had migrated into groundwater in the vicinity of the site. Table 3-1 lists well depths and water levels for each monitoring well sampled. During the original inspection, sample MV1 was obtained from a well, labeled G113D by MCL, located along the northern boundary of the MCL #2 site (see Figure 3-5 for monitoring well sampling locations). During the venting and purging of this well, FIT noted air blowing out of the well and a percolating sound coming from the well. Screening equipment, an OVA 128, recorded an elevated reading at the well opening.

Table 3-1
Monitoring Well Data

Sample -	Well Depth* (feet)	Water Level* (feet)
MW1 (G113D)	64.6	41.6
MW2 (G110)	45.6	38.4
MW3 (G111) Duplicate	38.0	31.6
MW4 (G117)	62.0	42.7
MW1-A (G113D)‡	64.6	38.18
MW2-A (G110) Duplicate	45.6	34.69
MW4-A (G117)	62.0	42.05

^{*} Well depths and water levels measured from the top of the well casing.

[†] Monitoring well measured but not sampled during resampling visit to the site.

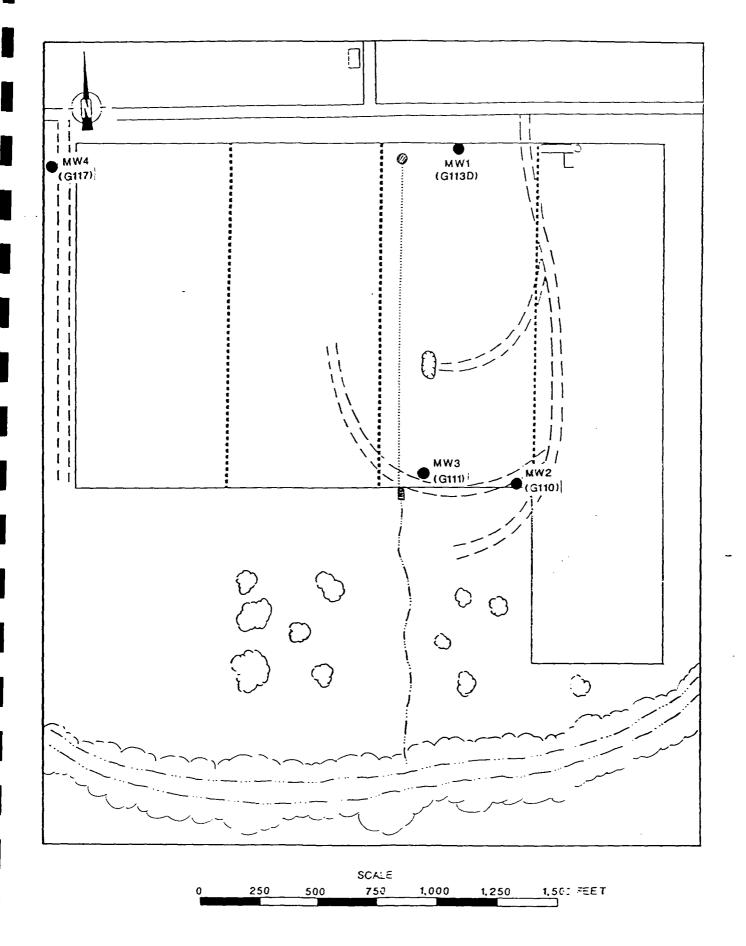


FIGURE 3-5 MONITORING WELL SAMPLING LOCATIONS

No sample was collected at well MW1 during the resampling visit because of an obstruction in the well's casing that would not allow a monitoring well bailer to be lowered down the well beyond a depth of 4 to 6 feet. The upper portion of this well appeared to be leaning to the north as a result of heavy machinery traffic passing close by.

Sample MW2 was obtained from a well (G110) on the south end of the site. Sample MW2-A was also obtained at this location. Sample MW3 was obtained from a well (G111) at the southwest corner of the site. No corresponding sample could be obtained from well MW3 because of the removal of this well since the date of the original inspection. A replacement well for MW3 had not yet been installed.

Sample MW4 was obtained off-site from a well (G117) on the western boundary of MCL #4. Sample MW4-A was also obtained from this location.

In accordance with U.S. EPA quality assurance/quality control requirements, a duplicate monitoring well sample and field blank samples were collected on each day of sampling. The duplicate sample was collected at location MW3 during the original inspection and MW2 during the resampling visit. The field blank samples were prepared from distilled water.

All monitoring wells were purged of three to five volumes of standing water prior to the collection of each sample. All monitoring well samples were collected with stainless steel bailers that had been scrubbed with a solution of detergent (Alconox) and distilled water and triple-rinsed with distilled water prior to the collection of each sample (E & E 1987).

As directed by U.S. EPA, all monitoring well samples were analyzed using the U.S. EPA CLP.

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of FIT-collected soil/sediment and monitoring well samples for TCL compounds and TAL analytes. All samples were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanides. Complete chemical analysis results of FIT-collected soil/sediment and monitoring well samples are provided in Tables 4-1 and 4-2.

Quantitation/detection limits used in the analysis of soil/sediment and monitoring well samples are provided in Appendix D.

The analytical data for the chemical analysis of soil/sediment and monitoring well samples collected for this SSI have been reviewed by U.S. EPA for compliance with terms of CLP, and the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for validity and usability. Any additions, deletions, or changes to the data have been incorporated in the chemical analysis results tables presented in this section.

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Table 4-1 RESULTS OF TCL ANALYSIS OF FIT-COLLECTED SOIL/SEDIMENT SAMPLES, ORIGINAL INSPECTION

Table 4-2
RESULTS OF TAL ANALYSIS OF
FIT-COLLECTED SOIL/SEDIMENT SAMPLES,
RESAMPLING VISIT

Sample Collection Information				Sample	e Number			
and Parameters	S1-A	92-A	\$3-A	54-A	\$5-A	96-A	\$7 -A	\$(- <u>å</u>
	4/24/90	4/24/90	4/24/90	4/24/90	4/24/90	4/24/90	4/24/90	4/24/50
ine	0920	1015	0905	1155	1200	0935	1100	1100
LP Inorganic Traffic Report Number	# EJ#3 0	Hejw31	HEJW32	HEJM33	HEJ₩34	MEJ₩35	NEJ¥36	MEJ#37
nalyte Wetested								
<u>values in us/kg)</u>							•	
lusinus	2,400	4,680	12,600	10,900	8,470	7,290	7,920	9, 180
ntinony	12.4JNB	12.4JNB	10.8JNB		12.6JNB	21JN	11.5JMB	12.5JNB
rsenic	2.28	2.8	3.9	5.5	4.8	4.7	4.0	4.8
arium	12 .8JE B	23.6JEB	96.8JE	70.32	55.4JE	25.23EB	46.5JE	74.1JE
eryilius		0.488	1.18	1.18	0.838	0.828	0.75B	1,45
alcium	35,500	41,400	16,800	1,220	31,800	53,300	38,950	39,900
การแบล	4.7	8.3	18.7	12.8	12.5	12.6	11.6	14.9
disde	~-	4.1R	6.8B	10.18	5.38	5.18	5.7B	7.78
cober	15.2	11.5	19.2	11.2	41.9	10.1	17.3	27.6
roa	5,580	9 , 560	19,000	15,600	14,700	13,200	12,700	16,300
ead	3.6JN	5.4JN	21.6JN	31.5JN	87.1JN	7.3JN	18.2JN	21.4JN
agnesium	14,500	17,200	8,680	2,050	12,000	23,500	12,90	15,800
anganese	188	297	574	596	314	325	5 76	56€
ercury		**			~-	0.16		4. 10
ickel	6.88	11	18.1	15.4	26.8	14.3	46.3	31.7
otassium	453B	99 68	3,270	1,210	1,110B	1,670	1,0808	1,390
ilver	·		·	· ~=	1.5B	1.7B	· 	·
odium	1178	1258	1,460	48.9JB	182B	164B	1358	197B
anadiu n	7.2B	11.4	19.6	21.7	19.3	15.4	15.6	19.4
tine	23.2	35	81	42,2	79.1	40.1	60. 3	91.4

-- Not detected.

ANALYTE QUALIFIERS DEFINITION INTERPRETATION

판	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiguantitative.
H	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi- quantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi- quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

Table 4-1 (Cont.)

COMPOUND GUALIFIERS

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T:

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Indicates an estimated value.

This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.

Cannot be confirmed by CLP protocols.

Compound value may be semiquantitative.

Compound value may be samiquantitative if it is (5x the blank concentration (410x the blank concentrations for common laboratory artifacts: phthalates, sethylese chloride, acetome, toluene, 2-butanone).

į

Compound value may be scaliquantitative. There should be another analysis with a I qualifier, which is to to be used.

Compound may on may not be present.

Table 4-3

RESULTS OF TCL ANALYSIS OF

FIT-COLLECTED MONITORING WELL SAMPLES,

ORIGINAL INSPECTION

Sample Collection Information			Sample	Number		
and Parameters	MW1	MW2	Duplicate	KW3	MW4	Blank
Date	12/6/89	12/6/89	12/6/89	12/6/89	12/6/89	12/6/89
Time	1045	1200	1300	1300	1400	1000
CLP Organic Traffic Report Number	EHE11	EHE12	EHE13	EHE14	EHE15	EHE16
Temperature (°C)	7	10	9	9	8	6
Specific Conductivity (µmhos/cm)	500	1,500	3,400	3,400	400	28
рн	6.65	6.88	6.76	6.76	7.47	8.70
Compound Detected						
(values in µg/L)						
Volatile Organics						
vinyl chloride	~-	10				
chloroethane			75	6J		
methylene chloride	2Ј	2J		2Ј		
arotono	22	4.1	1,500.15	1,600.10		-
1,2-dichioroethene (total)	***	200				~-
2-butanone (MEK)			8,500JD	5,600JD	75 <i>J</i>	
trichloroethene		14				
4-methyl-2-pantanone			23			
tetrachloroethene		3J				
toluena			1,900JD	2,000JD	1.J	
Semivolatile Organics						
phenol			63	56		
1,4 =dichlorobonyono	20 300	± ==	3.1	4.7	10.00	
4-methylphenol			180	160		
di-n-butylphthalate						1.

.

⁻⁻ Not detected.

COMPOUND QUALIFIERS

DEFINITION

INTERPRETATION

J Indicates an estimated value.

Compound value may be semiquantitative.

D This flag identifies all compounds identified in an analysis at a secondary dilution factor.

Alerts data user to a possible change in CRQL. Data is quantitative.

Table 4-4

RESULTS OF TAL ANALYSIS OF
FIT-COLLECTED MONITORING WELL SAMPLES,
RESAMPLING VISIT

Sample Collection Information				
and Parameters	MW2-A	Duplicate A	MW4-A	Blank A
Date	4/24/90	4/24/90	4/24/90	4/24/90
Time	0930	0930	1215	1345
CLP Inorganic Traffic Report Number	MEJW40	MEJW39	MEJW43	MEJW42
Temperature (°C)	25	25	28	30
Specific Conductivity (µmhos/cm)	1,947	845	898	23
DII	6.77	6.93	7.20	7.83
Analyte Detected				
(values in py/L)				
antimony	58.7B	54.7B	39.1B	
arsenic	3.3B	3.5B	15.2B	
barium	95.5B	92.1B	160B	
calcium	137,000	132,000	103,000	256JE
iron	3,730	4,030	1,020	90.1JE
lead	1.0JNWB	1.3JNWB		
magnesium	65,300	64,100	43,200	76.2JE
manyanese	418	434	71.7	
mercury		0.20JN		
potassium	4,060B	3,490B	3,700В	
nodium	28,000	26,100	22,400	216J
Vanadlum	8.68	6.7B	7.3B	
zinc	77.8	85.1	34.7	

. Hot detected.

ANALYTE QUALIFIERS

N	Spike recoveries outside QC protocols, which indicates	Value may be quantitative or semi-
	a possible matrix problem. Data may be biased high	quantitative.
	or low. See spike results and laboratory narrative.	•
В	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi- quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

INTERPRETATION

DEFINITION

DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the MCL #2 site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

TCL compounds and TAL analytes were detected in on-site monitoring well and soil/sediment samples. TCL compounds and TAL analytes detected in monitoring well samples at concentrations significantly elevated above background include 1,2-dichloroethene (total) at 200 µg/L, phenol at 63 µg/L, 4-methylphenol at 180 µg/L, mercury at 0.20JN µg/L, acetone at 1,600JD µg/L, 2-butanone (MEK) at 8,500JD µg/L, and toluene at 2,000JD µg/L. TCL compounds and TAL analytes detected in on-site soil/ sediment samples at concentrations significantly greater than background include phenanthrene at 1,300 µg/kg, fluoranthene at 2,100 µg/kg, pyrene at 1,400 µg/kg, benzo[b]fluoranthene at 1,000 µg/kg, acetone at 130JB µg/kg, 2-butanone (MEK) at 120JB mg/kg, antimony at 21JN mg/kg, and mercury at 0.16 mg/kg (definitions and interpretations of qualifiers are provided in the analytical results tables in Section 4). The TAL analyte mercury and TCL compounds acetone and MEK were detected in concentrations significantly higher than background in both on-site soil/ sediment and monitoring well samples. Therefore, mercury, acetone, and MEK can be considered attributable to the site.

A potential exists for groundwater contamination by TCL compounds and TAL analytes from the MCL #2 site for the following reasons.

- TCL compounds and TAL analytes were detected in on-site soil/sediment and monitoring well samples at concentrations greater than background.
- A portion of the wastes disposed of at the MCL #2 site are in liquid form.

The potential for TCL compounds and TAL analytes to contaminate groundwater in the vicinity of the site is also based on the following geologic information.

Approximately 150 to 200 feet of glacial material overlies bedrock in the vicinity of the site (Piskin and Bergstrom 1975). Area well logs (see Appendix E) indicate semiconfining clay-rich glacial deposits with discontinuous sand lenses. Surficial clay deposits range in thickness from approximately 1.5 to 62 feet. Below surficial clay deposits are additional discontinuous clay and sand units that overlie a thick, discontinuous sand stratum (Kempton, Morse, and Visocky 1982). This sand stratum is believed to be part of the Henry Formation and is considered the aquifer of concern (AOC) (Shaffer, Krimmel, and Silver 1983).

Indications from area well logs place the top of the water-bearing sand stratum at elevations of approximately 572 feet above sea level in the area north of the site, 536 feet in the area east of the site, and 597 feet in the area southeast of the site. Previous subsurface investigations at the landfill by a local consulting engineering company indicate that the water-bearing sand stratum is located at an elevation of 569 feet near the Sangamon River and 577 feet near the northern river bluff. However, within the boundaries of the landfill, the AOC is encountered as much as approximately 30 feet lower than the lowest fill area (Shaffer, Krimmel, and Silver 1983).

Water level measurements from area well logs indicate that the depth to groundwater ranges from 10 to 68 feet, with an average of

approximately 26 feet. Groundwater flow direction is assumed to be to the south, toward the Sangamon River.

Most of the area bedrock consists of Pennsylvanian-age Shale of the Bond Formation (Burris, Morse, and Naymik 1981). Bedrock does not appear to be utilized as a drinking water source in the vicinity of the site. The AOC is utilized by rural residents and is not considered a major water supply source in the Sangamon River Valley (Shaffer, Krimmel, and Silver 1983).

The city of Decatur, approximately 5 miles northwest of the site, uses surface water from Lake Decatur as a drinking water supply source. Surface water intakes for Decatur are located in Lake Decatur approximately 5 miles east (upstream) of the site (Mayhugh 1989). Harristown utilizes surface water from the city of Decatur and groundwater from a single well located approximately 4 miles northeast of the site (Vest 1988).

The target population for potential groundwater contamination is the approximately 1,730 persons who use groundwater from private wells located within a 3-mile radius of the site. This figure was calculated using 1980 Census information, which indicates an average of 2.67 persons per household for Macon County (U.S. Bureau of the Census 1982). This average was multiplied by a house county of 648 derived from United States Geological Survey (USGS) topographic maps (USGS 1967, 1967a, 1982, 1982a). The result of the calculations indicates that a total of approximately 1,730 persons live outside the Decatur and Harristown municipal water supply boundary but within a 3-mile radius of the MCL #2 site.

The nearest well to the MCL #2 site is a private well located approximately 200 to 250 feet north of the site.

5.3 SURFACE WATER

The Sangamon River, the nearest surface water body to the site, is located approximately 1,300 feet south of the site. FIT did observe a direct surface water migration pathway from the site onto the floodplain of the Sangamon River. This migration pathway consists of the storm

sewer drain that discharges from under the landfill at the southwest corner of the MCL #2 site. IEPA also reported that runoff water is pumped into the river from excavated areas of the site (IEPA 1990).

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A potential does exist for TCL compounds and TAL analytes to migrate from the site onto the Sangamon River floodplain, based on the following information.

- TCL compounds and TAL analytes have been detected in on-site soil/sediment samples.
- A portion of the waste disposed of on-site is in liquid form.
- An established surface water migration pathway was observed leading to the Sangamon River.
- Leachate seeps were observed on-site, along the south edge of the landfill, bordering on the floodplain of the river.

The city of Decatur obtains its drinking water supply from Lake Decatur, which is fed by the Sangamon River. Decatur's surface water intake is located approximately 6 to 7 miles upstream of the site. No surface water intakes exist within a 3-mile radius of the site, upstream or downstream.

The Sangamon River is also used recreationally within a 3-mile radius of the site (Rockford Map Publishers 1983).

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the MCL #2 site. During the reconnaissance inspection, FIT site-entry instruments (explosimeter, OVA 128, oxygen meter, radiation monitor, and hydrogen cyanide monitor) did not detect levels above background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does not exist for TCL compounds and TAL analytes to migrate from the site via windblown particulates, because the fill area is completely covered and in older areas of the MCL #2 site the surface is grass covered.

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, and an interview with Gene Benning, Assistant Fire Chief for the Harristown Fire Department (Benning 1989), no documentation exists of an incident of fire or explosion at the site. According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI.

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representative, no incidents of direct contact with TCL compounds or TAL analytes at the MCL #2 site have been documented.

However, a potential exists for the public, as well as MCL employees, to come into direct contact with TAL analytes and TCL compounds detected at the site because only the northern boundary of the site is fenced.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the site is approximately 380 persons. This population was calculated as previously described in Subsection 5.2.

6. REFERENCES

- Benning, Gene, September 7, 1989, Assistant Fire Chief, Harristown Fire Department, Harristown, Illinois, telephone conversation, contacted by Samuel F. Borries of E & E.
- Burris, C. B., W. J. Morse, and T. G. Naymik, 1981, Assessment of A

 Regional Aquifer in Central Illinois, Cooperative Groundwater

 Report 6, State of Illinois Department of Energy and Natural

 Resources.
- Cavanagh, Thomas E., November 9, 1979, Manager, Land Permit Section, Division of Land/Noise Pollution Control, letter, to Macon County Landfill Corporation, permit number 1976-4-DE and supplemental permit number 1979-955.
- E & E, 1987, Quality Assurance Project Plan Region V FIT Conducted Site Inspections, Chicago, Illinois.
- Eastep, Lawrence W., August 9, 1983, Manager, Permit Section, Division of Land Pollution Control, letter, to Shaffer, Krimmel, Silver and Associates, Inc., Macon County 11580408, regarding Decatur/Macon County Landfill permit number 1976-4-0P, supplemental permit number 1981-11-Ex.

, January 19, 1984, Manager, Permit Section, Division of Land Pollution Control, supplemental permit number 1984-8-SP, Decatur/ Macon County Landfill #2. , July 24, 1984a, Manager, Permit Section, Division of Land Pollution Control, letter, to MCL, reference to liquid waste disposal trench, supplemental permit number 1984-58-SP. IEPA, May 31, 1979, memorandum to Division file, Subject: Macon County-LPC11580408-Decatur/Macon County #2, prepared by John Taylor. , October 19, 1990, memorandum, to E & E, Subject: Macon County Landfill, prepared by Steven Townsend. Kempton, J. P., W. J. Morse, A. P. Visocky, 1982, Hydrogeologic Evaluation of Sand and Gravel Aquifers for Municipal Groundwater Supplies in East-Central Illinois, Cooperative Groundwater Report 8, Illinois Department of Transportation, Division of Water Resources. Krimmel, Robert G., September 14, 1979, letter, to Thomas E. Cavanagh, Manager, Permits Section, IEPA, Subject: Macon County Landfill #2 permit number 1976-4-0P. Mayhugh, Jim, September 7, 1989, Decatur Public Water Department, telephone conversation, contacted by Samuel F. Borries of E & E. McDermott, R. Michael, December 20, 1988, Environmental Scientist, Andrews Environmental Engineering, Inc., letter, to Paul McKinney, MCL, concerning groundwater monitoring results. , September 29, 1989, Environmental Scientist, Andrews Environmental Engineering, Inc., letter, to Angela Aye Tin, Manager, Technical Compliance Unit, Division of Land Pollution Control, IEPA, Springfield, Illinois, concerning groundwater monitoring results.

- McKinney, Paul, December 4, 1989, President, MCL, interview, conducted by Samuel F. Borries of E & E.
- Piskin, Kemal, and R. E. Bergstrom, 1975, "Glacial Drift in Illinois: Thickness and Character," Illinois State Geological Survey, Circular 490.
- Rockford Map Publishers, 1983, <u>Illinois Travel and Recreation Guide</u>, Rockford, Illinois.
- Shaffer, Harold S., Robert G. Krimmel, and Van A. Silver, 1983, Proposed Groundwater Monitoring System Macon County Landfill #2, Froject number I7-7286-1267.
- U.S. Bureau of the Census, 1982, 1980 Census of Population, Characteristics of the Population, General Population Characteristics, Illinois, Washington, D.C.
- U.S. EPA, February 12, 1988, Office of Solid Waste and Emergency Response, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.
- USGS, 1967, photorevised 1975, Decatur, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.
- ______, 1967a, photorevised 1975, Forsyth, Illinois Quadrangle, 7.5
 Minute Series: 1:24,000.
- , 1982, Harristown, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.
- , 1982a, Warrensburg, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.

Vest, George, January 22, 1988, Harristown Water Department Operator, telephone conversation, contacted by Robert Kurzeja of E & E.

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APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

Imagery Insert Form

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4-MILE RADIUS MAP
Other:

APPENDIX B

U.S. EPA FORM 2070-13



Site Inspection Report

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	FICATION
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IZZDI	980498125

VEFA	PART 1 - SITE	LOCATION AND IN	ISPECTION INFORM	ATION 1220	1980498125
L SITE NAME AND LOCATION					
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MACON County	LANDfill	_ 1/	(K + Y Bex 11.	<u> </u>	
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Nathan Russ	, se//	Geologist	<i>'</i>	EiE	13121613-94K
Karen Spangler		Environment		ESE	312 663-9415
GINA Bayer			emist	EEE	32163-9415
Chuck Hall		Environmenta	,	EEE	3/2 263-9415
LATTY Nelson		Biologist	· cn/···cu	EE	3/21:63-945
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	OF INSPECTION	19 WEATHER CONDITION	NS / 300	115	
PERMISSION WARRANT	7.30	Overcast,	Cool ~38 AM	ind ~ 10 mah	is pt. Cardy 12.
IV. INFORMATION AVAILABLE	FROM			<u>~</u>	
OI CONTACT		02 OF (Agency Organization		, ,	03 TELEPHONE NO.
PAUL Mikin	ney	Maron Co.	unty LANDFO	[[Q171963-272
04 PERSON RESPONSIBLE FOR SITE IN	SPECTION FORM		6 ORGANIZATION	07 TELEPHONE NO.	08 DATE
SAMUEL BORRI		1-1-1	U.S. EPA	14811-2016	1 19 91

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

1. IDENTIFICATION

OF STATE UZ SITE HUMBER

TLD 98049 8125

SOLI	A			TION REPORT	4	ILD 980	1498125
II. WASTE S	TATES, QUANTITIES, AN	ND CHARACTERI					
	STATES (Check of their apply)	CZ WASTE QUANTIT	ITS AT SITE	03 WASTE CHARACTE	EHISTICS (1-1-4-1-4)	: ADDIS	
■ C SY ADOR	_	104S	unknown	☐ A TOXIC ID B CORROS ID C PADIDA ID FERSISS	DSIVE TO FLAT	ECTIOUS DU EXPLO MMMABLE DIK REAC ITABLE DIL INCOL	CTIVE
C 0.07HER	(Specify)	NO OF DRUMS		<u> </u>			
III. WASTE T	Y						
CATEGORY	SUBSTANCE N	:WE	61 GROSS AMOUNT	02 UNIT OF MEASURE	03 COLVENTS		
SLU	SLUDGE		<u> </u>	 '	1		
OLW	OLYWASTE		 '	<u> </u>	SEE	NARRATINE ECTION 4.	
SOL	SOLVENTS			 	SUB31	ECTION 4.	<u>z</u>
PS0	PESTICIDES		 		 		
000	OTHER ORGANIC CHEMIC			 			
ACD	NORGANIC CHEMIC	ALS			 		
BAS	BASES				 		
MES	HEAVY METALS			 	 		
	OOUS SUBSTANCES 5-4	Constructor most beginned:	to caed CAS Numbers)	<u> </u>	L		
01 CATEGORY			03 CAS : TA:BER	04 STORAGE/DISP	POSAL METHOD	05 CONCENTRATION	CONCENSATION
	SEE TH	ABLE 4-1	and 4-2	of NAR	RATIVE		
			<u> </u>				<u> </u>
			 '	<u></u>		I	<u> </u>
L	<u> </u>		 '				
<u> </u>	<u> </u>	!	 '	 		<u> </u>	1
<u></u>			<u> </u>				<u> </u>
							
	 		! '			 	
]			 			 	
 	 		 '	 		 	
 				 		 	
}	 		 	 		 	
}	+		 	 		+	
W CCCDST	2000		<u> </u>				┸
}	OCKS (See Appendix DECKS NO.	- ''''' 	OZ CAS NUMBER	CATEGORY			T
CATEGOR	VI. Carre	XXXX	OZ CAS HUMBELL	FDS	VI - E2 05.	TOCK NAME	OP CAS NUMBER
FDS			 	 			
FDS			ļ'	FDS FDS			
FDS			 	FDS			
 	ES OF INFORMATION CO		TIAL SING AUTON STRYIN,				L
					1 1 09	1 ./ 2./	
į .	SI of Ma		•		•	and 4-24	-40
- 5,	PATE AND F	ITAR	in formation	a, Region	5		

L IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE 01 STATE C: STE YJUBER TLD 980498125 SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS IL HAZA FOOUS CONDITIONS AND INCIDENTS 01 # A. GROUNDWATER CONTAMINATION C2 # OBSERVED (DATE: 12-4-89) EL POTENDAL C ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 1730 C4 NARRATIVE DESCRIPTION SEE NARRATIVE SUBSECTION 5.2 POTENTIAL C ALLEGED SEE NAMPATIVE SUBSECTION 53 01 D.C. CONTAMINATION OF AIR 02 OBSERVED (DATE: . C POTENTIAL C ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION SEE NARRATIVE SUBSECTION 5.4 No Potential Documented 01 D D. FIRE/EXPLOSIVE CONDITIONS 02 D OBSERVED (DATE: D POTENTIAL 03 POPULATION POTENTIALLY AFFECTED: **04 NARRATIVE DESCRIPTION** SEE NARRATIVE SUBSECTION 5.5 03 POPULATION POTENTIALLY AFFECTED: 380 OR DOBSERVED (DATE: POTENTIAL C ALLEGED SFE NARRATIVE SUBSECTION S. G 02 @ OBSERVED (DATE: 12-4-89) 01 B F. CONTAMNATION OF SOIL D POTENTIAL **D** ALLEGED 04 NARRATIVE DESCRIPTION 03 AREA POTENTIALLY AFFECTED: . SEE TABLE 4-1 O1 # G. DRINKING WATER CONTAMINATION OR CO OBSERVED (DATE: POTENTIAL. D ALLEGED SEE NARRATIVE SUBSECTION 01 . H. WORKER EXPOSUREMUNY 02 D OBSERVED (DATE: POTENTIAL D ALLEGED 03 WORKERS POTENTIALLY AFFECTED: **04 NARRATIVE DESCRIPTION** SEE MARRATINE SUBSECTION S.G 03 POPULATION POTENTIALLY AFFECTED 380 02 C OBSERVED (DATE: POTENTIAL C ALLEGED 04 NARRATIVE DESCRIPTION

SEE NARRATIVE SUBSECTION 5.6

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENT	IFICATION
OI STATE	02 SITE NUMBER 980498125

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS
CAS AND INCIDENTS (Compad)
oz G OBSERVED DATE.) POTENTIAL E ALLEGED / xists for damage to the surrounding flora from TU compainds was defected on site. Stressed trees were noted near soil
52.
or damage to /ccal fauna (i.e. raccooms) exists compounds and TAL analytes being detected in on site
exists through surface water runoff onto the Sangamon plain and possibly into the Sangamon River The potential detection of TCL compounds and TAL analytes in orisite soil/sediment sample
De lunguari of Wastes 180 180 1814 180 180 180 180 18
STEPROPERTY 02 OBSERVED (DATE:
CRIZED DUMPING 02 3 OBSERVED (DATE:) S POTENTIAL 3 ALLEGED ON
Another CERCLES site is present within approximately 1/2 mile west of the site.
POTENTIALLY AFFECTED: 1,730
IVATION (Conspectic enhances, e.g., state fies, sample analysis, reports)
f Maion County LAND fill # 2, 12-4-89 4-24-90

$\boldsymbol{\wedge}$		
NA	-	$-\Delta$
V.		

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

	LICENT	FICATION
I	1.D	98049 8125

SOLIFA	PART 4 - PERMIT	211 E 1142			TION	I-D 980498123
	PART 4: Count			TIVE IN ORD.A		
II. PERM T INFORMATION OF TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	103 DATE I	ISSUED	04 EXPIRATION DATE	FILESTMUENTS	
(Crese me apply)	02.0,		021			
EA NEDES					<u> </u>	
Св из	ļ				<u> </u>	
CC AR		↓			1	
DD. RCRA		<u> </u>			1	
DE. ACRAINTERIM STATUS	<u></u>	 			ļ	
□ F. S>CC PLAN	 			_		
G. STATE (Specify)	1976-4-08	6/17	1/76	unkrusen	operati	ns permit
CH. LOCAL (Specify)		1			<u> </u>	· ·
BI. CTHER ISSUER I EPA	unknown	unka	nown	unknown	suppler	mental permis
GJ. NONE	<u> </u>			<u> </u>		· · · · · · · · · · · · · · · · · · ·
III. SITE DESCRIPTION				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
01 STOFAGE: DISPOSAL (Creck all that apply) 02	AMOUNT G3 UNIT OF	MEASURE	04 TF	REATMENT (Chair at mar)	1 4	Ct CT-€A
C A SURFACE IMPOUNDMENT			DA.	INCENERATION	MA	- DISTONICS ON SITE
G B. PILES			j .	UNDERGROUND INJ		A BULDINGS ON SITE
D.C. DRUMS, ABOVE GROUND			ł	CHEMICALIPHYSIC	AL.	1 ,
☐ D. TANK, ABOVE GROUND			ł	BIOLOGICAL		LE RES OF STE
	nknown		1 _	WASTE OIL PROCES SOLVENT RECOVER		
C G. LANDFARM			_	OTHER RECYCLING		~25 mone
GH OPENDUMP			I	OTHER		
BE OTHER liquid disposal pit	unknoun	!	1		94 <i>3</i> 4y,	
07 COMMENTS		1		, , , , , , , , , , , , , , , , , , , 		
A small liquid disp	esal pit was	s riote	dd	wring the	site ins	pection. This
at was lay tod an	too of the	£,11.	5+2,	neard prac	ctice of	- disposal -
pri della diana	1 1 1/2	+	- 1	<i>i</i> +	1-1-	-h- 101t
consists of putting In the fill waste. The	quid into The	11	40,	1 - I IF M	to be	Las
the till waste. I he	disposal pil	13 /0-	4-1=0	Lat win	ous for	6 1798 J
on top of the fil	at various	time:	<u>s. </u>		 	
IV. CONTAINMENT						
I A. ADEQUATE, SECURE	B B. MODERATE	C. V	NADEON	UATE, POOR	E D INSECT	URE UNSOUND, DANGEROUS
				· 		THE CHOLDING UNITED COM
02 DESCRIPTION OF DRUMS, DIGING, LIMERS, BW Landfull 15 lined u	il in Cart	<i>(</i>	1	1 /	/	
Landfill is lined u	th 10 tee .	ot c	/ay	material.	1.11	11.1.1
Leachate collection,	pipes collect	leach	iate	from the	i lamen	WALCH
is put back into	the 4/1. 36	-t 30	uB36	EZTION Z,	.3	
Areas of leachate						
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE: YES	C) NO	- 1		· , ,		
or comments Only the northern be	1.11 15 +	Greed	who	wh has o.	ne locki	or gate
Unly the northern or	unaar	.			-	,
					<u></u>	······································
VI. SOURCES OF INFORMATION (CO. SEC.						
- SSI of MACON	u County ha	-15 fr	1/ #	t2 , 12-	-4-59	- 24-90
- State and FIT	- file inform	na. for	, K	egion 5		
	·		•			

SEPA		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA						TIFICATION DE DESTITE NUMBER 980 498 12
II. DRINKING WATER	SUPPLY				****	· · · · · · · · · · · · · · · · · · ·		
O1 THEE OF CRINKING SUI	>>_∀	,	G2 STATUS				03 0	STANCE TO SITE
	SUPFACE	WELL	ENDANGER	ED AFFE	CTED I	MONITC=ED,		. 2
CCMMDINTY	A, 🖥	8. 3	A. D		0	C. Dunkhown	A	> 3 (mi) - 200 ft Jan
NON-COMMUNITY	C. D	D. 🗷	. D. 🗆	- 	<u> </u>	F. L. MANAUM	В	20011-101
III. GROUNDWATER O1 GROUNDWATERUSE F								
A ONCY SOURCE F	CP CESHONG	B. DRINKING (Other sources evaluate COMMISERCIAL, IN (No other water source)	DUSTRIAL IRRIGATIO	Æ.	OMMERCAL MIRE OF SOCI	INDUSTRAL IRRIGATI (os avadados)	ION DI	D, NOT USED, UNUSEABLE
02 POPULATION SERVED	EY GROUND WAT	ren ~ 1730	-	03 DISTANC	E TO NEAFES	T DRINKING WATER W	εu ~ 2	oofeet m
04 CEPTH TO GROUNDWA	TER	05 DIRECTION OF GRO	OUNDWATER FLOW	06 DEFTH 10		07 POTENTIAL YIELD	0	8 SOLE SOURCE AQUIFE
10	æ	South		~/		unknown	(004)	🗆 YES 💂 NO
TO RECHARGE AREA YES COMMENT	' ' '			11 DISCHAR	GE AREA COMMENT	s SANGAN		
IV. SURFACE WATER		rainwater i	nfiltration	□ NO		JANGAN	now Ki	
O1 SURFACE WATER USE								
					OKAZESZIA	L. INDUSTRIAL	□ 0 .1	NOT CURRENTLY USE
A RESERVOIR A			N, ECONOMICALLY IT RESOURCES	J G.C.		4		•
A. RESERVOR A DRINKING WAT 02 AFFECTED POTENTIAL	ER SOURCE	MPÓRTAN						·
A. RESERVOR A DRIVKING WAT 02 AFFECTED POTENTIAL NAME:	LY AFFECTED BY	IMPORTAN DDIES OF WATER				AFFECTED		ASTANCE TO SITE
A. RESERVOR A DRIVKING WAT 02 AFFECTED POTENTIAL NAME:	ER SOURCE	IMPORTAN DDIES OF WATER				·		DISTANCE TO SITE
A. RESERVOR A DRIVKING WAT 02 AFFECTED POTENTIAL NAME:	LY AFFECTED BY	IMPORTAN DDIES OF WATER				AFFECTED		1000 feet 4
A. RESERVOR A DRIVKING WAT 02 AFFECTED POTENTIAL NAME:	ER SOURCE LY AFFECTED BY	IMPORTAN DDES OF WATER				#FECTED 0		1000 feet 4
DA RESERVOIR REDEVISION WATER THE POTENTIAL NAME:	ER SOURCE LY AFFECTED BY 1 ON R ND PROPERT	IMPORTAN DDES OF WATER				#FECTED 0	~ <i>/</i>	1000 feet 4

04 DISTANCE TO NEASEST OFF-SITE BUILDING

OS POPULATION WITHIN VICINITY OF SITE (Pro-see numerice describion of nature of population within exceller of a nine), except describing section and provided in the control of the contro

SEE SUBSECTION 2.2

03 MUNISER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

~ 225

POTENTIAL HAZARDOUS WASTESITE

LICENTIFICATION

SEPA	SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA	ILD 198049 8/25
VI. ENVIRONMENTAL INFORMA	ATION	
OT FERMERE LITY OF UNSATURATED 2	ONE (Chair and)	
 	#cm/sec D 8, 1014 - 1014 cm/sec C 0, 1014 - 1013 ch.sec D 0 GREATER	THAN 1013 cm/sec
02 FERMERS LITY OF BEDROCK (Cross)		
	10 ⁻⁶ cm/sec) (16 ⁻⁴ = 12 ⁻⁶ cm/sec) (10 ⁻² = 10 ⁻⁴ cm/sec)	VERY PERMEABLE (Seem than 11 - 7 cm sec)
03 DEFTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE 05 SOIL 24	
150 -200 m	unknown (H) unknown	
US NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINE ALL 08 SLOPE DIRECTION OF SITE S	LOPE TERRAIN AVERAGE SLOPE
<u>35.77</u> (in)	2.70 (n) ~28 radial	~1 ,
03 FLOOD POTENTIAL	10 STE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD ARE €	EVERINE ELOODWAY)
SITE IS NUNKNOWN YEAR FLO	DODPLAIN	
11 DISTANCE TO WETLANDS (5 acre man		(يصرمها
ESTUARINE	OTHER MYA	(ma)
A(mi)	B. N/A (m) ENDANGEFED SPECIES N/A	
13 CANDUSE AN VICINITY		
DISTANCE TO:	RESDEATEN AREAS NATIONAL STATE PARKS. AGRIC	CULTURAL LANDS
COMMERCIAL INDUSTR	FORESTS, OR WILDLIFE RESERVES PRAS AG LAN	
~11/2 m	B. ~ 3/4 (mil) C. N/A	(mi) D. ~ 1/2 (mi)
14 DESCRIPTION OF SITE IN RELATION	TO SURROUNDING TOPOSTAPHY	
SEE	APPENDIX "A"	
		-
}		
·		
1	N (Conspectic references, e.g., state thirs, sample analysis, raports)	
- SSI of MA	con County LANdf. 11 #2, 12-4-89 4-	24-90
- State and	FIT file information, Region 5	

SEPA			OTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT RT 6 - SAMPLE AND FIELD INFORMATION	01 STATE OF SITE NUMBER ILD 98049 8125
E. SAMPLES TAKE	N			
SAMPLE TYPE		T': NUMBER OF SAMPLES TAKEN	CZ SAMPLES JENT TO	03 ESTMATEC 14 TE MESULTS 4. KLABI
GROUNCH ATER		4	SEE NARRATINE	
RETAY STATES			SUBSECTION 3,4	
r. aste				
AS.				
RUNOFF				
254TT				
SOIL		8		
VEGETATION				
OTH€R				
IIL FIELD MEASURE	ELLENTS TA			
01 TYPE OVA 128		130 ppm Real	ding Above Background (1	Me thane)
Explosimet	/	1 1	Lings Above Background	
02 Meter			dings Above Background	
Radiation mini Alect	4	No Rea	Lings Above Background	
Hydronen Cyan Detector/Drea N. PHOTOGRAFHS	ide portube	No Read	ings Above Background	_
OI TYPE E GROUN	O S AFRAL		DE IN CUSTODY OF Ecology and Environ	enment Chicago
DS MAPS E YES E NO	E EL	<i>i</i> - /		
V. OTHER FIELD D	ATA COLLE	CTED Porturant	record)	
			ATIC WATER LEVEL MEASU	REMENTS TABLE 3-1
			g_state ties surrow energies, resurror	
		ecen (oun	ty Lanofill #2, 12/4/8	7 4/24/90
EFAFCFOY 2:270-13 (7-	&1)			

	F	OTE	NTIAL HAZAF	ARDOUS WASTE SITE LIDENTIFICATION				
& EPA				TION REPORT TLD 98			NUMBER 149 8125	
		P	ART 7 - OWNER	RINFORMATION			-	27 1 01
II. CURFENT OWNER(S)				PARENT COMPANY IT ASPECADE:				
MACON COUNTY LAND FIT	//	17 D+B	NOVBER	MACON COUNTY LA TO STREET ADDRESS "O BOLKET" OICH	10h	5,11	09 D	+8 NUVSER
O3 STREE ADRESS PO Bou PID . DEL	<u>`</u>	04	SIC CODE	10 STREET ADDRESS O BOLATE OIC.		1	\neg	11 SIC COD€
Box 113 RR#8			•	Box 1/3 RR#8				
son Decatur	JL STATE		522	Decatur		13 STATE IL		1P CODE 2522
O1 KAME			NUMBER	OB NAME				+ B NUMBER
CO STREET ADORESS (P O Bod, RIDP, ok.)		04	SC CODE	TO STREET ADDRESS ! O Box, RF2 *, etc.)				11SIC CODE
05 CITY	06 STATE	07 ZIP (C00€	12 CITY		13 STATE	14 21	IP CODE
O1 NAME		02 D+ E	B NUMBER	08 NAME			09 0	+ B NUVBER
O3 STREET ADDRESS (P.O. Box, RFD P. MC.)		04	SC CODE	10 STREET ADDRESS IP 0 Bos, RFD F, etc.)				11SIC CODE
os any	06 STATE	07 ZIP (CODE	12 CITY		13 STATE	14 21	P COD€
O1 NAME		C2 D+8	B NUMBER	OB NAME			090	+BNUMSER
03 STREET ADDRESS (P.O. Box, NFD+, 4k.)		04	SC CODE	10 STREET ADDRESS (P.O. Box, RFD F, esc.)	-			11SIC CODE
OS CITY	06 STATE	07 ZIP (C00€	12 017		13 STATE	14 2	IP CODE
BL PREVIOUS OWNER(S) and recommend from				IV. REALTY OWNER(S) (F accounts to	! mes: -q.com	z (ret)		
OINME		02 D+8	B NUMBER	O1 NAME N/A			03 D	+B NUMBER
03 STREET ADDRESS (P.O Box, MD4, onc.)		0	4 SC CODE	03 STREET ADDRESS # 0. Box. MO P. ME.J		<u></u>		04 SIC CODE
osary	06STATE	07 ZIP (COOE	05 CITY		06 STATE	07 Z	IP CODE
O1 NAME		02 D+B	NA-SER	O1 NAME			02 D)+BNUVSER
03 STREET ADDRESS (P.O. Box, MFD+, etc.)		04	4 SC CODE	03 STREET ADDRESS P O. Box, NFD+, otc.)			04 SIC CODE .	
ωαην	O6 STATE	07 ZIP C	>00€	05 CITY		06 STATE	07 Z	IP CODE
O1 NAME		03 D+E	B NUMBER	O1 NAME			02 D	P3EMUN B+I
03 STREET ADDRESS (P.O. Box, NFD P. ORL)		04	4 SC COO€	03 STREET ADDRESS # 0 Box. NO . etc.)				04 SIC CODE
SATY	06 STATE	07 ZIP	P CC0€	05 CTY		D6 STATE	07 ZI	IP CODE
V. SOURCES OF INFORMATION (CAN MACA	ic references.	e.g , 5101e	t bert, sample anavers, rej	Ports)				
SSI of MACO	W C	1 .ou	nty LANT	>fill 12-4-89			-9.	0

POTENTIAL HAZARDOU					RDOUS WASTE SITE	LIDENTIF			
SEPA				SITE INSPEC	CTION REPORT DESTATE		980498125		
ROLLINA.			PA	RT 8 - OPERAT	OR INFORMATION				
II, CURRENT OPERATO	R Province de della constitución				CPERATOR'S PARENT COMPANY (1997)				
OI NAVE			02.0	+ B NUMBER	IC VAME			D-BNUMBÉR	
DIMEK.	(4.1								
Paul McKINN C3 STALET ADDAESS IP.O BO	ey tronger		L.,	04 SIC CODE	JAME US PAPENT CON	ngany	L_,	13 SIC COS€	
C3 5 EE : ADD#ESS (P.O B)	12, NO D P , 482 J			04 3-C CODE	123. PEE. AJURESS (FU BOX, HISF ME)			33660	
SAME as	owner	06 STATE	107		1	1	1		
OS CITY	:	00 SIAIE	07 2	IIP CODE	14 GiV	15 STATE	16.	ZIP CODE	
G8 YEARS OF OPERATION OR NAME OF OWNER									
III. PREVIOUS OPERAT	OR(S) dust most recent for	rst; provide on	4 1 00	Merent from owner)	PREVIOUS OPERATORS' PARENT CON	APANIES (#	accés	ا واحد	
OI NAME /				O+ B NUMBER	10 ME			O+BNUMBER	
NA					DISTREET ADDRESS (P.O. BOL. NED P. SEL) CONTY 15 STATE CONTY 15 STATE				
03 STREET ADDRESS (P.O. B	w RFD# est 1		Ц.	04 SIC CODE	12 STREET ADDRESS (P.O. Box. RED.C. arc.)		Щ.	113 SIC CCO€	
05 CITY		06 STATE	07 2	UP COOE	14 CITY	15 STATE	16	ZIP CODE	
08 YEARS OF OPERATION 09 NAME OF OWNER DURING THIS PERIOD			RIOO		-				
O1 NAME 0			02 0	+ 8 NUMBER	10 NAME	1C NAME			
03 STREET ADDRESS (P.O. 86	c, RFD f, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. BOL MD)		13 SIC CODE		
OS CITY		06 STATE	07 2	UP CODE	14 017	15 STATE	16.	ZIP CODE	
G8 YEARS OF OPERATION	09 NAME OF OWNER	DURING TH	IS PE	RICO			!		
01 NAME	<u> </u>		02 (O+8 NUMBER	10 NAME		111	D+8 NUMSER	
	·		L				L		
03 STREET ADDRESS (P.O. &	n, 1970 f. elc.)		l	04 SIC CODE	12 STREET ADDRESS (P.O. Box, MD+, ecc.)			13 SIC COOE	
05 City		06 STATE	07 2	ZIP CODE	14017	15 STATE	16	SAL CODE	
			L				Ŀ		
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING TH	IS PE	RICO					
IV. SOURCES OF INFO	RMATION (Ch specia	ic references.	e.p., s	iate Bas, sancie enelysis.	NLOCES				
					1 (1/+2				
- SSI	of M	ALON	(County .	(AND fill # / 12-	4-89		4-24-90	
				•					
1									
1									
			•						

€EPA		OTENTIAL HAZA SITE INSPE GENERATOR/TE	I. IDENTIFICATION OI STATE OF SITE NUMBER ILD 980498125		
II. Of-E. TE GENERATOR					
RINAME NJA		02 S - & NUMBER			
CB STREET ADDRESS PO Box RCC + otc)	1	C4 SIC COD€			
csan	CR 3747E	07 ZIP C⊃D€			
III. OFF-SITE GENERATOR(S)		·			
SEE FIT file for lamps	lete list	02 D = 5 NUMBER	0: NAME		02 D+8 NUMBER
C3 STREET, ADDRESS IP O. Box, RFS 4, etc.)		64 SIC COD€	03 STREET ADDRESS (PO BL. 400. 00)		04 SIC CODE
Chicago	CE STATE	07 ZIP CODE	os city	DE STATE	07 Z₽ CODE
C: NAME		02 D+E NUMBER	01 NAME	4	02 D+ B NUMBER
03 STREET ADDRESS (P O BOX MEA, MC)		04 SIC CODE	03 STREET ADDRESS (P.O Box, MCD P, ME.)		04 SIC CODE
us an-	& STATE	67 ZIP COD€	05 GTY	OE STATE	07 ZIP CODE
IV. TRANSPORTER(S)					1
OI NAME	/	02 D+B NUMBER	101 NAMEZ SR Contenner Service	and	02 D+B NUMBER
SAME AS Off-site Ger	recete	e	1 Decatur Santary Service	,	
03 STREET ADDRESS (P.O. Box, MPD4, ofc.)		04 SIC CODE	O3 STREET ADDRESS (P.O. DO. APD . DE)	·	04 SIC COOE
OS CITY	STATE	07 ZIP COO€	OSCATURE De Cature	OS STATE	07 ZIP COOE
Orane Kraft Trucking a Obedine Sewer	and	02 D+6 NUMBER	OI NAME, 3 R.F.R. Container Service	ــــــــــــــــــــــــــــــــــــــ	02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, MFD#, etc.)		™ SIC CODE	C3 STREET ADDRESS (P.O. 600, EDP. etc.)		04 SIC CODE -
UA KNOWN	TV STATE	G7 ZIP CODE	UNKNOWN	Ine exare	07 ZIP CODE
Decatur	IL		Mason City	IL	
V. SOURCES OF INFORMATION (Com Excel	C:10/0-10-00E.	Lg. SUP Des survey orayes.	reports)		
_ SSI intervie	ŧω	- MAcon	County Landfull, 12-4	89	4-24-90
£PA =5= 2070-13(7-81)					

	POTENTIAL HAZARDOUS WASTE SITE		I. IDENTIFICATION
≎EPA	SITE INSPECTION REPORT PART 10- PAST RESPONSE ACTIVITIES		01 STATE 02 SITE NUMSET TLD 980498125
IL FAST PLESPONSE ACTIVITIES			
: I A WATER SUPPLY CLOSED	CC 14 TE	03 AGENCY	
I- DESCRIPTION N/A			_
B TEMPORARY WATER SUPPLY PROVIDE LESCRIPTION	OED C: -=	03 AGENCY	
N/A			
TO C. PERMANENT WATER SUPPLY PROVIDE A TESCRIPTION	OED 02.74.1E	C3 AGENCY	
NA			
2" D. SPILLED MATERIAL REMOVED 24ESCRIPTION	05 77 E	03 AGENCY	
N/A			
☐ E. CONTAMINATED SOIL REMOVED ☐ □ESCRIPTION	02 スモ	G3 AGENCY	
N/A			
21 I F. WASTE REPACKAGED 24 DESCRIPTION	05 DATE	03 AGENCY	
N/A			
:: I G. WASTE DISPOSED ELSEWHERE LESCRIPTION	05コ生	03 AGENCY	
N/A			:
27 _ H. ON SITE BURIAL 24ESCRIPTION /	05 DALE	03 AGENCY	
N/A			
27 I IN SITU CHEMICAL TREATMENT 24 DESCRIPTION	05 D415	03 AGENCY	
N/A			
37 J. IN SITU BIOLOGICAL TREATMENT 24	02 EATE	03 AGENCY	
N/A			
TESCRIPTION	02 DATE	03 AGENCY	
NA			
21 L. ENCAPSULATION 24 CESCRIPTION /	05 27 LE	03 AGENCY	
N/A			
27 _ M. EMERGENCY WASTE TREATMENT	05 C+LE	03 AGENCY	
:4 ≡ESCRIPTION NA			
	02 DATE	03 AGENCY	
≥ ESCRIPTION NA			
O. EMERGENCY DIKING SURFACE WATE	R DIVERSION 02 DATE	03 AGENCY	
14 DESCRIPTION NA	·		
☐ P. CUTOFF TRENCHES/SUMP	05 DALE	03 AGENCY	
== ESCRIPTION NA			
:- I D SUBSURFACE CUTOFF WALL	02 SATE	G3 AGENCY	
:= IESCRIPTION NA			

	POTENTIAL HAZARDOUS WASTE SITE	L IDENTIFICATION
SEPA	SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	01 STATE 03 SITE NUMBER ZLD 98049 8125
IL PAST RESPONSE ACTIVITIES		
0: I R BARRIER WALLS CONSTRUCTED	C2 DATE	IS AGENCY
C4 DESCRIPTION NA		
0: _ S. CAPPING COVERING	G2 DATE	13 AGENCY
C4 DESCRIPTION NA		
01 T. BULK TANKAGE REPAIRED	C2 DATE	C3 AGENCY
04 DESCRIPTION NA		
01 Q U GROUT CURTAIN CONSTRUCTED	02 DATE	C3 AGENCY
04 SESCRIPTION NA		
G1 TV. BOTTOM SEALED C4 DESCRIPTION	O2 DATE	CS AGENCY
NA		
01 TW. GAS CONTROL C4 DESCRIPTION	OS DATE	C3 AGENCY
N/A		
G1 Z X. FIRE CONTROL	02 DATE	S AGENCY
G4 DESCRIPTION NA		
01 E.Y. LEACHATE TREATMENT	02 DATE	C3 AGENCY
G4 DESCRIPTION NA		
01 © Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	C3 AGENCY
N/A		- -
01 [: 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	C3 AGENCY
NA		
01 (2. POPULATION RELOCATED 04 DESCRIPTION /	02 DATE	C3 AGENCY
N/A		-
01 () 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	OZ DATE	C3 AGENCY
NONE		
	•	
		İ
III. SOURCES OF INFORMATION CARDOCAL	lerences, e.g., siae files, sample analysis, reports)	
167 1	M. C 1.1 (1/ =-	7 1 1 64 1 2 1 90
- DDI Interview - 1	Macon County LAND fill =2	12-4-81, 4-24-10
- State AND FIT	file information, Region 5	
1		

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

II. ENFORCEMENT INFORMATION

OF PAST REGULATORY ENFORCEMENT ACTION (2) FES. # NO.

02 DESCRATION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

SEE NARRATIVE

SSI interview - MAION County LANDFILL #2, 12-4-89, 4-24-90 STATE AND FIT file information, Region 5

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET SITE NAME: MACON County LANDfill #2 OF 27 PAGE U.S. EPA ID: ILD 058910027 TOD: FOS 8705059. PAN: FILO 557.5A DATE: 12/5/89 TIHE: 1553 DIRECTION OF PHOTOGRAPH: NW VEATHER ' CONDITIONS: pt. cloudy PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID (if applicable): DESCRIPTION: Close up of sediment SAmple SI near storm Sewer drain pipe exit DATE: 12/5/89 TIME: <u>1553</u> DIRECTION OF PHOTOGRAPH: NW VEATHER CONDITIONS: PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID (if applicable):

Sterm sower discharge pipe.

FIELD PHOTOGR	APHY LOG SHEET	· · · · · · · · · · · · · · · · · · ·	
SITE NAME: MACON County LAND FO	11 # 2	PAGE 2 OF	27
U.S. EPA ID: IL D058910027 TDD: F	05 8705 059	PAN: FIL	055758
DATE: 12/5/89			W.
TIME: /la/U	3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 - 1 - 1 - 1 - 1 - 2 - 1 - 2 - 1 - 2 - 1	
DIRECTION OF PHOTOGRAPH: NE			1000
veather conditions: pt cloudy ~ 45°			
PHOTOGRAPHED BY: SAM BORRIES			
SAMPLE ID (if applicable): 52			
DESCRIPTION: Perspective view			
of soil sample location	100		
52.	* -		
DATE: 12/5/89			
TIME: 1610	1.1503000		
DIRECTION OF	57 59		
PHOTOGRAPH: \(\times \iff \iff \)	- JANOE		
WEATHER CONDITIONS:			
~ 45°			
PHOTOGRAPHED BY: SAM BORRIES			
SAMPLE ID (if applicable):		· N.	
DESCRIPTION: Close up view of s	oil sample scal	hc 52.	

PAGE 3 OF 27 SITE NAME: MACON County LANDfill #2 U.S. EPA ID: ILD 058910027 TDD: FOS 8705059 PAN: FILO 557.5A DATE: /2/5/89 TIHE: 1629 DIRECTION OF PHOTOGRAPH: NW VEATHER ' CONDITIONS: of cloudy PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID (if applicable): DESCRIPTION: Close up view of one 53 composite sample lecations. DATE: 12/ /89 TIHE: 1629 DIRECTION OF PHOTOGRAPH: **VEATHER** CONDITIONS: Cloudy PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID

DESCRIPTION: Perspective view of 53 composite sample

15 cations

(if applicable):

·				:·	· <u> </u>	
	FIELD P	HOTOGRAPHY	LOG SHEET			
SITE NAME: MACON	County L	ANDFILL	#2	PAGE	4 of 2	7
U.S. EPA ID: ILD 05	8910027 т	DD: F05	870505	7 PAN:	FILO5	57.5A
DATE: <u>12/5/89</u> TIME: <u>/654</u>						
DIRECTION OF PHOTOGRAPH:						
veather conditions: pt. cloudy ~ 45°						
PHOTOGRAPHED BY: SAM BORRIES					·	
SAMPLE ID (if applicable):						
DESCRIPTION: Close	up view	of 5011	sample	location	5 -'	
	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		-	 ·
DATE: 12/5 /89						
TIHE: 1654						
DIRECTION OF PHOTOGRAPH:						
veather conditions: pt. cloudy ~45°						
PHOTOGRAPHED BY: SAM BORRIES						
SAMPLE ID (if applicable):						
DESCRIPTION: Person	echie Wes	/ 30	sil singi	E location	5-1.	·

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:

FIELD PHOTOGRAPHY LOG SHEET SITE NAME: MACON County LAND fill #2 PAGE 5 OF 27 PAN: FIL 05575A U.S. EPA ID: IL D058910027 TDD: F05 8705 059 DATE: 12/6/89 TIME: 1040 DIRECTION OF PHOTOGRAPH: 5 **VEATHER** CONDITIONS: Overcast wildrizzle PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID (if applicable): 55 DESCRIPTION: Perspective view of seil sample location 55 near storm sewer drain. DATE: 12/6/89 TIHE: 1040 DIRECTION OF PHOTOGRAPH: 1035 VEATHER CONDITIONS: Overcast with PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID (if applicable): DESCRIPTION: Close up view of soil sample recotion 55

near 5 prom sewer drain.

FIELD PHOTOG	GRAPHY LOG SHEET				
SITE NAME: MALON County LAND		PAGE	6 OF	27	
U.S. EPA ID: IL D 0589/0027 TDD: /	F05 8705 059	PAN:	FIL	0557	5A.
DATE: 12/4/89					
TIME: 1430					
DIRECTION OF PHOTOGRAPH: N	SITE IN CONTROL				
VEATHER CONDITIONS: pt sunny ~ 40°	OATE TIME				
PHOTOGRAPHED BY: SAM BORRIES		ASI			
SAMPLE ID (if applicable): 56			l esta	4	ST.
DESCRIPTION: Close up		;	•		
view of soil sample					3.5
location S6.			A	1	
					COMMENT OF THE PARTY OF THE PAR
DATE: 12/6/89					
TIME: 1430	· ·				
DIRECTION OF PHOTOGRAPH:					
PHOTOGRAPHED BY: SAM BIRRIES		de la	ièi il		外流
PHOTOGRAPHED BY: SAM BURRIES					न
SAMPLE ID (if applicable): 56			10.70		N SE
DESCRIPTION: Perspective		•			9k
view of soil Sample					
Location Sle	The state of the s		X		
		长			

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: MACON County LANDfill #2 PAGE 7 OF 27

U.S. EPA ID: ILD 058910027 TDD: FOS 8705059. PAN: FILO 557.5A

DATE: /2/6/89

TIHE: 1515

DIRECTION OF PHOTOGRAPH:

N

veather conditions:
pt sunny ~40°

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID (if applicable):



DESCRIPTION: Close up view of soil sample location 57

DATE: 12/6/89

TIHE: 1515

DIRECTION OF PHOTOGRAPH:

veather conditions:
pt. sunny ~ 46

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID (if applicable):



DESCRIPTION: Perspective view of soil sample location 57

FIELD PHOTOGRAPHY LOG SHEET SITE NAME: MACON COUNTY LAND & 11 #2 PAGE 8 OF 27 PAN: FIL 05575A U.S. EPA ID: IL D058910027 TDD: F05 8705 059 DATE: 12/6/89 TIME: 1530 DIRECTION OF PHOTOGRAPH: NW VEATHER CONDITIONS: pt. sunny ~ 40° PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID . (if applicable): 58 DESCRIPTION: Close up View of soil SAMPLE location S8. DATE: 12/6/89 TIHE: __/530 DIRECTION OF PHOTOGRAPH: NW VEATHER CONDITIONS: pt sunny ~40 PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID (if applicable): ≤\$ DESCRIPTION: Perspective view of soil sample location 58.

	. .	٠					
	FIELD	PHOTOGRAPE	HY LOG SHEE	T			<u> </u>
SITE NAME: MACON	County	LANDfil	1 #2		PAGE	9 of 7	Z
U.S. EPA ID: ILD 05	8910027	TOD: FOS	870503	59	PAN:	FILO55	7.5A
DATE: 12/6/89							
TIHE: //()	:						
DIRECTION OF PHOTOGRAPH:							
veather conditions: Overcast with drizzle ~ 37°			SITE I 1058	-4			
PHOTOGRAPHED BY: SAM BORRIES		c.	DATE 12-10	45-			
SAMPLE ID (if applicable): MuV							
DESCRIPTION: C/23e	UP Vien	s of m	eniter we	=// JA	npk	location,	MNI
	,				·	•	
			1				
DATE: 12/6/89			•				
TIHE: 1105							
DIRECTION OF PHOTOGRAPH:							
VEATHER CONDITIONS: Overcast with drizzle ~ 37°			٠				
PHOTOGRAPHED BY: SAM BORRIES							
SAMPLE ID (if applicable): M W /							

DESCRIPTION: Perspective view of men to well simple contine Min.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: MACON County LANDfill #2

PAGE /O OF 27

U.S. EPA ID: ILD 058910027 TDD: FOS 8705059. PAN: FILO 557.5A

DATE: 12/6/89

TIME: 1220

DIRECTION OF PHOTOGRAPH:

VEATHER '

conditions:

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID (if applicable): MW2



DESCRIPTION: Close up view of monitor well sample lucation MWZ.

DATE: 12/6/89

TIME: 1220

DIRECTION OF PEOTOGRAPH:

VEATHER CONDITIONS:

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID (if applicable): MN 2



DESCRIPTION: Person live view of monitor well sample location Min .

	FIELD PHOTOGRA	PHY-LUG SHEEL		
SITE NAME: MACON	V County LANDFI	11 #2	PAGE // O	F 27
	58910027 TDD: FO.		PAN: FIL	0557.5A
DATE: 12/6/89		7.4		
TIHE: <u>/340</u>		Carrier State of the Carrier S		
DIRECTION OF PHOTOGRAPH:		SAMPLE AWS DUE		
S		1300 Day		
veather Conditions:				
pt. cloudy			The state of the s	
~ 40°	The state of the s			
PHOTOGRAPHED BY: SAM BORRIES	and the state of t			
SAHPLE ID (if applicable): $M \otimes 3$				
	se up view of m	ron, for well sa	mole locati	on MW3
				
DATE: 12/6/89				Yas .
TIHE: 1340				
DIRECTION OF PHOTOGRAPH:				
<u>sw</u>		•		· _ ·
veather conditions:				
pt. cloudy				
PHOTOGRAPHED BY:		•	.* ***	
SAM BORRIES				
SAMPLE ID (if applicable): $N W \beta$				
	special view of	monitor well	SAMPE loca	ation MWS

FIELD PHOTOGRAPHY LOG SHEET SITE NAME: MACON County LAND fill #2 page 12 of 27PAN: FIL OSS7SA U.S. EPA ID: IL D058910027 TDD: F05 8705 059 DATE: 12/6/89 TIME: 1400 DIRECTION OF PHOTOGRAPH: S **VEATHER** CONDITIONS: pt. clardy ~ 40° PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID (if applicable): DESCRIPTION: (lose up VIEW of monitor well 11 PERDOSX910027 FIND TATURSTATE I'L sample location muit. LEMN4 Pot. BKgrd DATE: 12/6/89 TIME: 1600 DIRECTION OF PHOTOGRAPH: SE VEATHER CONDITIONS; PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID (if applicable): DESCRIPTION: Lecking east at landfull #2 from the

northern boundary of land # 4.

SITE NAME: MACON County LANDfill #2 PAGE 13 OF 27 U.S. EPA ID: ILD 058910027 TDD: FOS 8705059 ... PAN: FILO 557.5A DATE: 12/5/89 TIHE: _///6 DIRECTION OF PHOTOGRAPH: VEATHER ' CONDITIONS: pt. cloudy ~40° PHOTOGRAPHED BY: JAM BORRIES SAHPLE ID (if applicable): DESCRIPTION: South side of Macon County LANDfill #2. The SANGAMON River flood plain is on the left. DATE: 12/5/89 TIHE: 1054 DIRECTION OF PHOTOGRAPH: 5 w VEATHER CONDITIONS: Overcast ~380 PHOTOGRAPHED BY: SAM BORRIES SAHPLE ID (if applicable): NIA DESCRIPTION: Looking southwest from the top of landfil #2.

Pit on the right is the present landful #3. Sul rom

FIELD PHOTOGRAPHIC DOS SUSSE PAGE 14 OF 27 SITE NAME: MACON County LANDfill #2 U.S. EPA ID: ILD 058910027 TDD: FOS 8705059 ... PAN: FILO 557.5A DATE: /2/5/89 TIME: 1035 DIRECTION OF PHOTOGRAPH: VEATHER ' CONDITIONS: Overcast ~38° PHOTOGRAPHED BY: SAM BORRIES SAHPLE ID (if applicable): DESCRIPTION: Liquid waste disposal DATE: 12/6/89 TIHE: <u>0858</u> DIRECTION OF PHOTOGRAPH: VEATHER CONDITIONS: Overcast ~37° PHOTOGRAPHED BY: SAM BORRIES SAHPLE ID (if applicable):

DESCRIPTION: Ppe ne ridge between Landfills #3 and #4.

-	FIELD FROIDWALL AND SHEET	<u> </u>
SITE NAME:	MACON County LANDfill #2	PAGE 15 OF 27
	ILD 058910027 TOD: FOS 8705059	PAN: FILO557.5A
DATE: /2/6/	189	
TIHE: 15/5	5	
DIRECTION OF PHOTOGRAPH: NW		
veather conditions:	-40°	
PHOTOGRAPHED B SAM BORRE		
SAMPLE ID (if applicable	e):	And the second s
DESCRIPTION:	Entrance to Macon County Lardfell	west of od
office bu	Iding and present shop building.	· · · · · · · · · · · · · · · · · · ·
DATE: 12/6	189	
TIHE: 145	5	:
DIRECTION OF PHOTOGRAPH:		
VEATHER CONDITIONS: pt cloudy ~7	<u>40°</u>	
PHOTOGRAPHED B		
SAMPLE ID (if applicable	e):	of the
DESCRIPTION:	Fr Ash piles on top of Land-	/ B- /.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: MACON County Landfill #2 PAGE 16 OF 27

U.S. EPA ID: ILD058910027 TDD: F05-8705-059. PAN: FIL05575A

DATE: 4/24/90

TIME: 10.24

DIRECTION OF PHOTOGRAPH:

CONDITIONS:

Swary ~ 70°

PHOTOGRAPHED BY: SAM BURRIES

SAMPLE ID (if applicable):



DESCRIPTION: Close up view of morganic sample location 51.

DATE: 4/24/90

TIHE: 10.24

DIRECTION OF PHOTOGRAPH:
Northwest

VEATHER
CONDITIONS:
Sunny ~ 70°

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID (if applicable):



DESCRIPTION: Perspective view of increase sample location 51

FIELD PHOTOGRAPHY LUG SHEET

SITE NAME: MACON County Landfill #2 PAGE 17 OF 27 PAN: FILO5575A U.S. EPA ID: ILD0589/0027 TDD: F05-8705-059 DATE: 4/24/90

TIHE: 10.38

DIRECTION OF PHOTOGRAPH: North

VEATHER CONDITIONS: Sunny ~70°

PHOTOGRAPHED BY: SAM BURRIES

SAHPLE ID (if applicable):



DESCRIPTION: Close up view s morganic sample location 52

DATE: 4/24/90

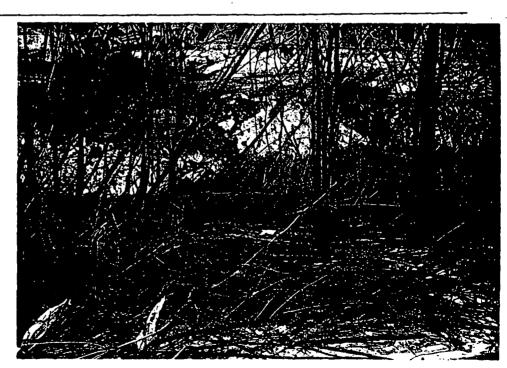
TIHE: 10:38

DIRECTION OF PHOTOGRAPH: North

VEATHER CONDITIONS:

PHOTOGRAPHED BY: SAM BORRIES

SAHPLE ID (if applicable): 52



DESCRIPTION: Perspective view of marganic sample location Si.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: MACON County Landfill #2 PAGE 18 OF 27

U.S. EPA ID: ILD058910027 TDD: F05-8705-059. PAN: FIL05575A

DATE: 4/24/90

TIHE: 13:45

DIRECTION OF PHOTOGRAPH:

Northeast

VEATHER CONDITIONS:

Suring ~ 80°

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID
(if applicable):



DESCRIPTION: Close up upwofinerganic soil sample location 53.

DATE: 4/24/90

TIME: 13.45

DIRECTION OF PHOTOGRAPH:

North east

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID (if applicable):



DESCRIPTION: Perspective view of morganic soil sample victions 53

FIELD PHOTOGRAPHY LUG SHEEL SITE NAME: MACON County Landfill #2 PAGE 19 OF 27 U.S. EPA ID: ILD0589/0027 TDD: F05-8705-059 PAN: FILO5575A DATE: 4/24/90 TIHE: //.55 ILD980498125 CITY Decatur STATE II. DIRECTION OF PHOTOGRAPH: SAMPLE S 4 WEATHER ' CONDITIONS: Sunny ~ 70 PHOTOGRAPHED BY: SAM BORRIES SAMPLE ID (if applicable): DESCRIPTION: Close up view of inorganic soil sample location 54. DATE: 4/24/90 TIME: //.55 DIRECTION OF PHOTOGRAPH: **VEATHER** CONDITIONS: Sunny ~70° PHOTOGRAPHED BY: SAM BORRIES

DESCRIPTION: Perspective view of morganic soil sample scatter 54

SAMPLE ID

(if applicable):

FÏELU PHUTOGRAPHT LAG SHEEL

SITE NAME: MACON County Landfill #2 PAGE 20 OF 27

U.S. EPA ID: ILD058910 027 TOD: F05-8705-059 PAN: FILO5575A

DATE: 4/24/90

TIME: 12:00

DIRECTION OF PHOTOGRAPH:

VEATHER CONDITIONS:

Sunny ~70"

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID
(if applicable):



DESCRIPTION: Close up view of inorganic sediment sample location 55.

DATE: 4/24/90

TIHE: 12.00

DIRECTION OF PHOTOGRAPH:

West

VEATHER
CONDITIONS:

Sunny ~70°

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID (if applicable):



DESCRIPTION: Perspective view of inorganic sediment sample location SS

Ξ-		
	FIELD PHOTOGRAPHY LOG SHE	EET
SITE NAME: MACON Count	/ LANDfill #2	PAGE21 OF 27
/		059 PAN: FILOSS 75A
DATE: 4-24-90		
TIME: 10:18		
DIRECTION OF PHOTOGRAPH: North		
WEATHER CONDITIONS: Sunny ~ 70°		
PHOTOGRAPHED BY: Sam Berries		
SAMPLE ID (if applicable): 54		
DESCRIPTION: Close up	view of inorganic sed	ment sample beation Sto.
DATE: <u>4-24-90</u>		

TIME: 10:18 DIRECTION OF PHOTOGRAPH: North **VEATHER** CONDITIONS: Sunny ~70° PHOTOGRAPHED BY: San BORRIES SAMPLE ID (if applicable): 56 DESCRIPTION: Perspective view of increase sediment sample location 56.



FIELD PHOTOGRAPHI LOG SHEET

SITE NAME: MACON County Landfill #2

PAGE 22 OF 27

U.S. EPA ID: ILD0589/0027 TDD: F05-8705-059 PAN: FILO5575A

DATE: 4/24/90

TIME: //:00

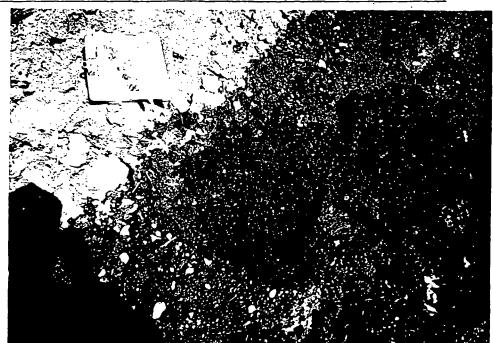
DIRECTION OF PHOTOGRAPH:

North

veather conditions:
Sunny ~70'

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID (if applicable):



DESCRIPTION: Close up view of morganic soil sample location 57.

DATE: 4/24/90

TIHE: _//.'00

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:
Suny ~70°

PHOTOGRAPHED BY: SAM BORRIES

SAMPLE ID (if applicable):



DESCRIPTION: Ferspective view of marganic soil sample / cation 57.

FIELD PHOTOGRAPHY LOG SHEEL SITE NAME: MACON County Landfill #2 PAGE 23 OF 27 U.S. EPA ID: ILD058910 027 TDD: F05-8705-059 PAN: FILO5575A DATE: 4/24/90 TIME: //:07 DIRECTION OF PHOTOGRAPH: West VEATHER ' **CONDITIONS:** Sunay ~70° PHOTOGRAPHED BY: SAM BORRIES

SAHPLE ID (if applicable):

DESCRIPTION: Close up view of norganic soil sample location 58.

DATE: 4/24/90

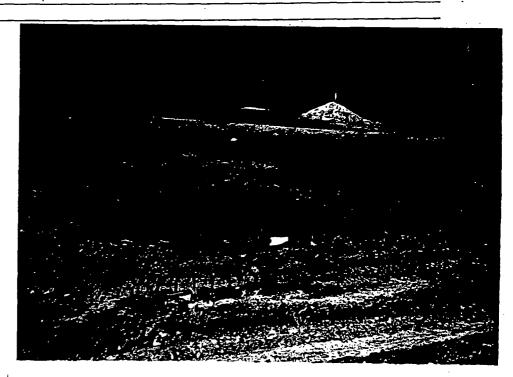
TIME: //.07

DIRECTION OF PHOTOGRAPH: West

VEATHER CONDITIONS:

PHOTOGRAPHED BY: SAM BORRIES

SAHPLE ID (if applicable):



DESCRIPTION: Perspective view of inormanic soil sample because 58.

	Pro C. Autorio C	
	FIELD PHOTOGRAPHI LOG SHEEL	·
	County Landfill #2	
U.S. EPA ID: ILDOS	8910027 TOD: FOS-8705-059.	PAN: FILO557SA
DATE: 4/24/90		
TIME: 9:45		
DIRECTION OF		
PHOTOGRAPH: Southerst		
VEATHER '	3	100
CONDITIONS: Signif ~ 70°	2 DOLLAS 1	25
County 10	SITE ILD98049812	
PHOTOGRAPHED BY:	DATE WAY 10- TIME 0945	
SAM BURRIES		
SAMPLE ID		
(if applicable): MW2		
DESCRIPTION: (/ose	up view of inorganic monter	ng well sample
location 1	·	·
1/11/00		
DATE: 4/24/90	The state of the s	
TIHE: 9:45		/
DIRECTION OF PHOTOGRAPH: /		
Southeast.		
VEATHER		
CONDITIONS: Sugary ~70°		
-		
PHOTOGRAPHED BY:		
SAM BORRIES		
SAMPLE ID		
(if applicable): <u>Mw2</u>		E STATE OF
DESCRIPTION: Pers	pective view of marganic m	per trine well
		

	FIELD PHOTOGRAPHY LOG SHEET	
SITE NAME: MACO	N County Landfill #2	PAGE 25 OF 27
	58910027 TOD: F05-8705-05.	9. PAN: FILO5575A
DATE: 4/24/90		The state of the s
TIHE: 12:28		
DIRECTION OF PHOTOGRAPH:		
East		
VEATHER .	HIM. Age.	
CONDITIONS: Sway ~75°		
		
PHOTOGRAPHED BY: SAM BORRIES		
SAMPLE ID		and the second
(if applicable):		
DESCRIPTION: C/os.	e up view of morganic minit	oring well sample
location		
DATE: 4/24/90		
TIHE: 12:28		
DIRECTION OF		
PHOTOGRAPH:		
VEATHER	المستحقيدية المصافحية والرواح المراجعة المستحق المستحق المراجعة المراجعة المستحق المستحق المستحق المستحق المستح المراجعة المستحق المست	and the second of the second of
CONDITIONS:		
Sunny ~15	ereg	
PHOTOGRAPHED BY:		
SAM BORRIES		
SAMPLE ID (if applicable):		
MW4		
DESCRIPTION: Person	ective view of inorganic meni	horing and
Simply	hugton MW t.	/

TIELU THUIOGRAPHI LAG SHELL SITE NAME: MACON County Landfill #2 PAGE 26 OF 27 U.S. EPA ID: ILD058910027 TDD: F05-8705-059 PAN: FILO5575A DATE: 4/24/90 TIME: /3:33 DIRECTION OF PHOTOGRAPH: West VEATHER ' CONDITIONS: pt Suny ~80 PHOTOGRAPHED BY: SAM BORRIES SAHPLE ID (if applicable): DESCRIPTION: Trench dug into the south end of MCL#2 to relieve leachate pressure. DATE: 4/24/90 TIHE: 9.05 DIRECTION OF PHOTOGRAPH: East **VEATHER** CONDITIONS: pt. Suny ~65° PHOTOGRAPHED BY: SAM BORRIES SAHPLE ID (if applicable):

Soil ect this received will be removed and replaced due to leachate problems

÷ ·	
FIELD PHOTOGR	RAPHY LOG SHEET
SITE NAME: MACON County Landfi	11 #2 PAGE 27 OF 27
U.S. EPA ID: ILD 0589/0027 TDD: F	05-8705-059 PAN: FILOS575A
DATE: 4-24-90	are the state of
TIME: 10:35	
DIRECTION OF North	
VEATHER CONDITIONS: Sunny ~ 70° PHOTOGRAPHED BY: SAM BORRIES	
PHOTOGRAPHED BY: SAM BORRIES	The control of the co
SAMPLE ID (if applicable): NA	
DESCRIPTION: Leachate seep	
south of MCL # 2	
fill boundary on	
Sangamon River	
floodphin.	

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

ADDENDUM A

ROUTINE ANALYTICAL SERVICES
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

Contract Laboratory Program Target Compound List Quantitation Limits

			SMIL SEDIMENT
COMPOUND	CAS #	VATER	SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3		5
1,2-dichloroethene (total)	540-59-0	5 5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10 -
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	. 5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5 5 5 5 5 5 5	5 5 5 5 5 5 5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromofo r ■	75-25-2	5	5
4-Hethyl-2-pentanone	108-10-1	10	10
2-Hexan ooe	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5 5 5 5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

			SOIL SEDIMENT
COMPOUND	CAS #	VATER	SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95- 48 -7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
	106-44-5	10	
4-Methylphenol			330
N-Nitroso-di-n-dipropylamine		10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87~68-3	10	300
4-Chloro-3-methylpbenol	59 –5 0–7	10	330
2-Hethylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophemol	88-06-2	10	330
2,4,5-Trichlorophesol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330
- onloropheny representation			330

Table A
Contract Laboratory Program .
Target Compound List
Semivolatiles Quantitation Limits

			SOIL SLUDGE
COHPOUND	CAS #	VATER	SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01 -8	10	330
Anthracen e	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330-
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

			SOIL SEDIMENT
COMPOUND	CAS #	VATER	SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BRC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16 .
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Hethoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphen e	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A (Cont.)

CONTRACT LABORATORY PROGRAM TARGET ANALYTE LIST (TAL) INORGANIC DETECTION LIMITS

-		Dete	Detection Limits		
		Water	Soil Sediment		
Compound	Procedure	(μg/L)	Sludge (mg/kg)		
aluminum	ICP	200	40		
antimony	furnace	60	2.4		
arsenic	furnace	10	2		
barium	ICP	200	40		
beryllium	ICP	5	1		
cadmium	ICP	5	1		
calcium	ICP	5,000	1,000		
chromium	ICP	10	2		
cobalt	ICP	50	10		
copper	ICP	25	5		
iron	ICP	100	20		
lead	furnace	5	1		
magnesium	ICP	5,000	1,000		
manganese	ICP	15	3		
mercury	cold vapor	0.2	0.008		
nickel	ICP	40	8		
potassium	ICP	5,000	1,000		
selenium	furnace	5	1		
silver	ICP	10	2		
sodium	ICP	5,000	1,000		
thallium	furnace	10	2		
tin	ICP	. 40	8		
vanadium	ICP	50	10		
zinc	ICP	20	4		
cyanide	color	10	2		

3767:1

APPENDIX E

VELL LOGS OF THE AREA OF THE SITE

LOG OF WATER WELL Property camer	•	,
Property cwner T.R. HANKS	Well N ↓	2-1-59
Drilled by Formations passed through	Year Thick-	Depth of Bottom
SOLL	1	
YALLOW CLA	19	20
GRAY	32	52
" SILTY SAND	1/	53
BROWN PARTY	//	60
GRAY SILTS SAND	100	77
FIRM HARD SAND	12	8-5
1111 1110		
Finished in Charles of Jack it necessary 3	- A	5-14
Cased with 4 inch GLIT 171FE rom C	_	7 14
and Inch from	_to	
Size hole below casinginch. Static level from su	ırl	ft.
Tested capacitygal. per mix. Tempera	ture	`F.
Water lowered toin, in) [
0 K / D. 140 4	2/1/2	
Slot Diam Length Bottom	set at-	5 ft ;
Township name ## Pir/ Plev Show location in S		00/14.12
Description of location		wp. Link
	7 F	Ee 1 E
Signed 1.76 14 Chinks MAC	BNI	
Copy for Illinois State Goological Servey Index:	104	

LOG OF WATER WELL	7/2 3 June
Property owner FAUL PANIESS	
Prilled by T.R. HINKS	.Yor 2 15-54
Formations passed through	Trick- Depth of ness Eattom
5014	_ /:_/
YILLOW CLAY	1516
CIRKY CLAY	37 53
BROWN DRIFT	
, n	32 27
PAR PAN GRAYPLAY	33/20
[Continue on back if it researy]	4
Cased withinch	
andinchiromirom	
Size hole below easinginch. Static level from a	.rift.
Tested capacitygal, per min. Temperat	time in the second of the seco
Water lowered to the line in in in	J rivi
Length of test hrs. min. Screen.	
Slot Diam Length Bettom	re etamono de la fil
Township named HISTOWN Elev.	7.5 5 bg1
Description of location L. L. R. L.	1 74/6/
718 S. OF N. W. GER.	1 /21
Signed J. A. H. Car Mr. Carry MIC	* **
Copy for Well Drilling Contractor Index:	7)"

(, , <u>,</u>)

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III. Dept. of f = 2 Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUES , AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	Type of Well	•	
	a. Dug Bored I	Hole Diamin	. Depthft.
	Curb material	Buried Slab: Yes_	No
	b. Driven Drive P		
	c. Drilled Finishe	d in Drift	In Rock
	Tubular Gravel 1	Packed	
	d. Grout: (KIND)	FROM (Ft.)	TO (Ft.)
	(411.2)	1.1.0.1. (1.1.)	10 (1.17)
	<u> </u>	<u> </u>	
			·
		<u>_i</u>	
2.	Distance to Nearest:		
	Building Ft.	Seepage Tile Fie	eld
	Cess Pool		iron)
	Privy	•)
	Septic Tank		
	Leaching Pit	-	
3.	Is water from this well to be	used for human con	sumption?
	YesNo		•
1.	YesNo Date well completed	1947	
5.		Yes	No
	Manufacturer		
	Capacitygpm. De		
3.	Well Top Sealed? Yes	-	
	Pitless Adaptor Installed?		
	Well Disinfected? Yes		·
	Water Sample Submitted?		
٦.	nater sample submitted?	resN	0

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10	Dept. I	Mines and Minerals permit I	۱o.	,	Y ear	
11.	Proper	ty owner Circo Randeric	Plact	Well No.		
	Addres	s				
	Driller		Licens	e No.		
12.	Water f		 13. Cour			
	at dept	th toft.		2 4, 4d		
14.	Screen	: Diamin.	Twp	· 16N	L.	
	Length	:: <u>2/'5"</u> ft. Slot <u>.006</u>		15		
	. .		Elev	٠		
15.	Casing	g and Liner Pipe				<u></u>
Dia	ım. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	1.00	SHOW CATION IN
[10"	Surface		3/	SEC'	TION PLAT
	s	,				iw4 2/3
-		drive	 	165'3"	S	of Decal
		by multon back to the		بره ب		
		ole below casing:				
17.		level <u>/O</u> ft. below casi				
	above	ground level. Pumping lev	el ft.	when pu	mping	g at <u>40</u>
	gpm fo	r hours.				
18.	1	ORMATIONS PASSED THROUGH	ЭН	ТНІСК	NESS	DEPTH OF BOTTOM
10.					-	BOTTOM
		law			5	/9
	low c				14	23
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	<u>e cla</u>				٠ - ٢	7 6
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	e clay	4 Shalo			'のユ	102
50	HT gre	an olay			23	176
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<u>د د</u>	f+ 900	u clay gray sand mad	=1		16 P	182
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FILL IN ALL PERTINENT INF. ..ATION REQUESTED AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD. ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug Bored Hole Diamin. Depthft. Curb material Buried Slab: YesNo b. Driven Drive Pipe Diamin. Depthft. c. Drilled Finished in Drift In Rock Tubular Gravel Packed
	d. Grout: (KIND) FROM (FL.) TO (Ft.)
	CIBY 64 0
2.	Distance to Nearest: Building 700 Ft. Seepage Tile Field
	Is water from this well to be used for human consumption?
	Yes NoNo
4.	Date well completed <u>DEC 13</u>
5.	Permanent Pump Installed? Yes NoNo
	Manufacturer RPD TAUKET Type SUBMEGA
_	Capacityft.
ъ.	Well Top Sealed? Yes NoNoNoNoNoNo
	Well Disinfected? Yes No No
9.	Water Sample Submitted? Yes NoNo
REM	MARKS: WATER SAMPLE SENT TO MACON CO. HEALTH DEPT.
IDF	PH 4.065

GEO	LOGICAL AND WATER	20HAF12 M	AFFF REC	JRD
10. Proper	ty owner MAZON Co. 6	Pi. LA SERVATION	sz Well No. /	
	55 735 N MAIN 31			
	MIASITALIN BRES			
11. Permi	No. 42917			
12. Water	from SAND Formation	13. Coun	ty MACON	<u>/</u>
at den	th 64 to 35 ft.	Sec.	19	
14. Screen	i: Diam. 🛩 in.	Twp.	16 N	- - *
Lengt	1: 4 ft. Slot 12 3	عرب Rge.	75	
	,	Elev.		
15. Casin	g and Liner Pipe			
Diem. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHOW OCATION 1
4	BIK STEEL 11 F	1-3-6	Z/ SE	N BOW'E
			E.(1)	ひっちい ヘビ
				K Spilice Komesta
16. Size F	ole below casing: Nok	in سيرا	Cu sit	(1)
	level 42 ft. below cas		h is/	
	ground level. Pumping le			
	r 2 hours.		-	•
18.	FORMATIONS PASSED THROU	JGH	THICKNES	S DEPTH (
100	5011		7-	2
				
	ow C/AY		13	17
GRE	X CIAX		47	64
FIN	E SAND		12	76
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(CONTINU	E ON SEPARATE SHEET I	F NECESSARY))	# 4
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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well			
	a. Dug 1	Bored Ho	ole Diami	n. Depthft.
				No
				. Depthft.
				In Rock
			icked	
	d. Grout:			·
	u. Giout.	(KIND)	FROM (Ft.)	TO (Ft.)
			 	
				
		L	<u> </u>	لـــــا
2.	Distance to Ne	arest:		
			Seengge Tile Fi	eld
				iron)
	Privy			n)
				1/
2	Leaching Pit_	4 ()	Monure Pile	
				(es / No
4.	Date well comp	leted <u>Huri</u>	<u>a 1706</u>	
5.	Permanent Pur	ip Installed? Ye	s Date	No <u></u>
				ation
				Ft.
6.	Well Top Seale	d? Yes Mo	Туре	
7.	Pitless Adapte	r Installed? Y	es No &	
	Manulacturer		Model Num	ber
	How attached t	o casing?	No	
A.	Well Disinfecte	ed? Yes	No	
11.	- Pump and Equi	pment Disinfect	od? Yes	_ No
10.	Pressure Tank	Sizegal.	Type	. <u></u>
	Location			
11	Water Sample S	challted? Yes	No-	
	MARKS:			
			4	يإ
			(), "	4 711/2
			`. '	
				,

GEOLOGICAL AND WATER SURVEYS WELL RECORD

11. F 12. W	Addres Oriller Permit Jater f It dept Icreen Length	th 7.3 to 161 ft. : Digm. 5 in. : 4 ft. Slot 15	25 License 1 Date IU 13. County	No. 10.2 - 18.31 / MACO. 30.62 16.N	7.06
		and Liner Pipe	· · · · · · · · · · · · · · · · · · ·		
		Kind and Weight	From (Ft.) To		SHOW NI MOITA
	<u> </u>	PNO SUR 21	+2 9		TION PLAT
ļ			}	50	ME SIC
16. S	ize H	ole below casing:	in.		
		level 68 It. below casis		is_2	ft
		ground level. Pumping leve			
g	pm fo	r Z hours.			
18.		PORMATIONS PASSED THROUG	ЭН	THICKNESS	DEPTH OF BOTTOM
Y	E//	ow C/PX		16	16
_6	LU	E C/AX		26	43
		10 - NO WATER	₹		4.3
_£	Ro	WN DRIFT	· · · · · · · · · · · · · · · · · · ·	4	47
_G	RE	FN CLAX		4	57
<u>(;</u>	KE	Y C/AX		بالمهارز	1.3
_3	AN	D-FINE TO M	MED.	22	95
		D = 117ED		ζ.	101

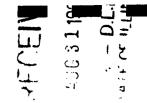
NOT THRU SAND AT 101
(CONTINUE ON SEPARATE SHEET IF NECESSARY)

IDPR 4.065 1/74 - KNB-1

LOG OF WATER WELL

orilled by	R. HANKE	Year	×26-3
,	Formations passed through	Thick-	Depth of Bottom
Sall			1
VE LLOW	CLAY	15	16
CRAY	11	19	35
CRAY	SAND	6	41
	a.		
		V	
and Q in	nch from	mm surf	رو رو سور
and O in	nch from inch. Statis layel i	rom surf	
andir	nch from	rom surf	
andir e hole below casin rted capacity ter lowered to	nch from inch. Statta level i gel per min. Te	rom surf	10 10 T
andir te hole below casis sted capacity ater lowered to ingth of test	nch from inch. Statis level in gel per min. Te	rom surf	10 10 T
ater lowered tongth of test	nch from inch. Statis level in in in hrs. min. Screen.	rom surf	10 10 T
andir te hole below casis ated capacity ater lowered to ngth of test Disp wnship name	nch from inch. Statts lavel if gal per min. To in. in. hrs. min Screen. Langts Itshow to be to the state of	mperature	10 10 T
andir ze hole below casis ated capacity ater lowered to ingth of test Dism	nch from inch. Statts lavel if gal per min. To in. in. hrs. min Screen. Langts Itshow to be to the state of	mperature	10 10 T
andir se hole below casis sted capacity ster lowered to agth of test biss with the capacity which is the capacity which is the capacity which is the capacity	nch from inch. Statts lavel if gal per min. To in. in. hrs. min Screen. Langts Itshow to be to the state of	mperature	10 10 T
and in hole below cash ed capacity ar lowered to the tast. Disputation of tast.	nch from inch. Statta layel i gal. per min. Te in in hrs. min Screen. Langta Zishow kepas	mperature	10 10 T

Permit No.				
== 279: ·				
	LOG OF WATER WE			
				3
Property owner	<u> </u>	150 CA	Vell N	To H
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shaffer-krimmel-silver

TEST BORING LOG

Macon County Landfill, Inc. RING NO. _____ SHY. ____ OF ___ 2____ CATION See Boring Location Plan RFACE ELEV. 608.3

6 % Brandway + F.O. Ber. 7213 + Decamp. History 57575 + 2171877 /100

PROJECT	Proposed Decatur,		Extension
PROJECT N	o. <u>17-728</u> June 21, 1	6-267	
	Clear		
DEPTH TO	WATER	<u> </u>	HAS.
DEPTH TO	WATER 12.5	5' 🏚 19	2 HRS.

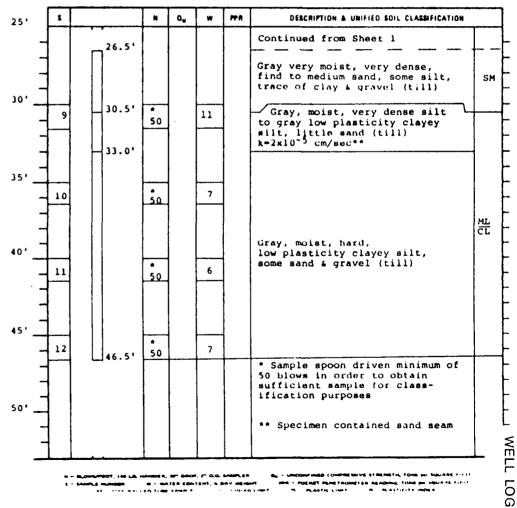
	1		N	u.	w	PPH	DESCRIPTION & UNIFIED SOIL CLASSIFICATION]
$\left\{ \right.$		1.51					Brown, moist, loose sand,	sc	}
+	1	4.7.	8				Brown, dry, loose, fine to coarse sand, trace of gravel, some silt & clay	SM	<u> </u>
+	2	6.0	14		12		Grayish brown, moist, very stiff, low to medium plasticity, silty clay, sand seams	CL	}
1	3	10.0	42		,		Brown, moist, dense, fine sand, little silt and clay, trace of gravel	SM	-
†	4	14.5	50				nrown, wet, very dense, fine to coarse sand, some gravel, little silt and clay	SW SM	F
1	5	15.0	50		7		Grayish brown, moist, hard, low to medium plasticity, silty clay, with sand, thin silt laminations (rill)	CL	-
Ţ	6	10.0	• 50				Brown, moist, dense, fine sand	SP	Γ
-		- 20.0°	-2. Y				Gray, very moist, very stiff, low to medium plasticity, silty clay, trace of sand (till)	Cr	-
1	7		50		L خ		Gray, very moist, very dense, fine sand and gravel, silt and clay seams	SM & CL	F
-	8	23.0	•				fray, very moist, very dense, fine to medium sand, some silt, trace of clay & gravel (till)	SM	
}		[_]26.5*	<u> </u>				Continued on Sheet 2	_	F

g. grammers is a consistent of the property of the constant of \$ \$Andrig manage is an entry contract to one adjust

TEST BORING LOG

FOR		
) sht2	20f2
LOCATION_		
SURFACE E	LEV	

PROJECT .		
PROJECT	NO. 17-7286-267	
DATE		
WEATHER		
DEPTH TO	WATER •	HRS
DEFTH TO	WATER	HRS



IPR - POCKET PLACTACIMETER READING, FINE IN HEVA-16 FIFT 5 - BANDLE MANAGEM - 0 - MATER CONTENT, 5 DAY MENTED TO THE CONTENT OF THE CONTEN

shaffer-krimmel-silver

TEST BORING LOG

8 Scoomer + # 0 Box 7233 + December, States - 6/5/8 + 217.877 7100

Macon County Lanfill, Inc. NG NO. ____3 __ SHT __L OF ___ }_, Mon See Boring Location Plan ACE ELEV. _____ 623.8

Proposed Landfill Extens	sion
PROJECT Decatur, Illinois	
PROJECT NO. 17-7286-267	
DATEJune 23, 1977	
WEATHER Cloudy, Warm	
DEPTH TO WATER 5.0" . 168	
DEPTH TO WATER	HRS

-\$		N	O _u	*	PPA	DESCRIPTION & UNIFIED SOIL CLASSIFICATION		
	2.0'	8		22		Brown, moist, firm, medium plasticity silty clay Mottled brown, moist, stiff, medium plasticity silty clay, Mg. Staining (Mod. Loess)	CL	- - -
2		4		15		Brown, wet, loose, fine sand, some silt a clay, to gray, very moist, firm, low to medium plasticity silty clay	SM CL	
4	8.5	5		411		Black, moist, firm, low plasticity, organic silt (Peat)	Pt	
5		н		21		Dark gray, very moist, firm, modium to high plasticity, organic clay	ОН	
- tı	16.0	B		24		Gray, very moist, firm, modium to high plasticity, silty clay to clay, trace of fine sand	당.	-
.,		1,		11		Brownish gray, very moist, firm, modium plasticity silty clay, little sand, trace of gravel (till)		-
						Gray, very moist, very stiff, medium plasticity silty clay, little sand, trace of gravel (till)	CL	-
8 	20.51	23		10		Continued on Sheet 2		<u>-</u>

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SHAFFER-KRIMMEL-SILVER A AMOCIATER HIC. COMMATING ENGINEERS

TEST BORING LOG

2006 N. Sraedony + P.O. Box 2733 + Ontable, History, 82526 + 217/877 2106

FOR	
	SHT. 2 OF 3
LOCATION	
SHREACE ELEV	

PROJECT	
PROJECT NO	
DATE	
WEATHER	
DEPTH TO WATER P	HRS
DEPTH TO WATER	HRS

25*	\$		N	Q,	w	PFR	DESCRIPTION & UNIFIED SOIL CLASSIFICATION	
_		26.5'					Continued from Sheet 1	
30'							Gray, very moist, very stiff, medium plasticity silty clay, little sand, trace of gravel (till)	
30	9		24		11		k=5x10 ⁻⁷ cm/sec	
-								CL
35'	10		50		9		with sand, trace of gravel	
40'	11	19,5.	50				Brown & gray, moist, very dense, fine sand, some silt	SM
45'		44.0'	•		11		Brownish gray, moist, hard,	
- - -	114	48.0'	50				low planticity milty clay, little sand, trace of gravel (till)	CL
50'	13	51.5'	50		6		Gray, moist, hard, low plasticity silty clay, some sand, trace of gravel (till)	-
-	1_						Continued on Sheet 3	

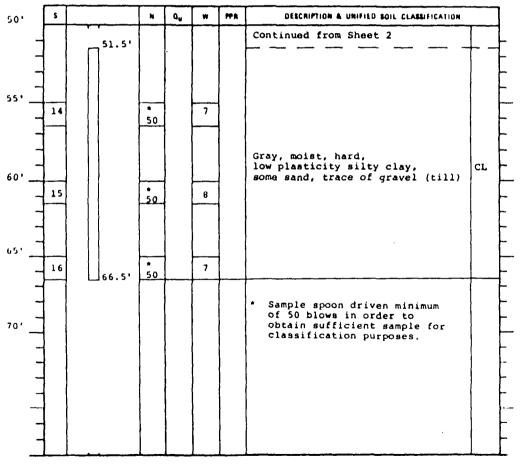
SHAFFER-KRIMMEL-SILVER

TEST BORING LOG

2906 N. Brantony + P.O. Box 2232 + Docasus, Itimes, 42426 + 217/877-2186

BOHING NO. ____ LUCATION ____ SURFACE ELEV. __

PROJECT __ DATE __ WEATHER ... DEPTH TO WATER __ DEPTH TO WATER ____



A CHARGOS LANGE MANAGE OF DAMP OF DISCHARGES *1 * 1 100 100 1 100 7

NOS - POCNET PRINTTRUMETER READING, TONS DE BOUGHS POUT S. - DE ESTIC EIGHT S. - DE STECTY INCIPT